

```

1 CCATGGGAGC GAACACTTCA AGAAAACCAC CAGTGTGTTGA TGAAAATGAA
51 GATGTCAACT TTGACCACTT TGAAATTTTG CGAGCCATTG GGAAAGGCAG
101 TTTTGGGGAG GTCTGCATTG TACAGAAGAA TGATACCAAG AAGATGTGCG
151 CAATGAAGTA CATGAATAAA CAAAAGTGCG TGGAGCGCAA TGAAGTGAGA
201 AATGTCTTCA AGGAACTCCA GATCATGCAG GGTCTGGAGC ACCCTTTCCT
251 GGTAAATTTG TGGTATTCTT TCCAAGATGA GGAAGACATG TTCATGGTGG
301 TGGACCTCCT GCTGGGTGGA GACCTGCGTT ATCACCCTGCA ACAGAACGTC
351 CACTTCAAGG AAGAAACAGT GAAGCTCTTC ATCTGTGAGC TGGTCATGGC
401 CCTGGACTAC CTGCAGAACG AGCGCATCAT TCACAGGGAT ATGAAGCCTG
451 ACAATATTTT ACTTGACGAA CATGGGCACG TGCACATCAC AGATTTCAAC
501 ATTGCTGCGA TGCTGCCCAG GGAGACACAG ATTACCACCA TGGCTGGCAC
551 CAAGCCTTAC ATGGCACCTG AGATGTTTCA CTCCAGAAAA GGAGCAGGCT
601 ATTCCTTTGC TGTGACTGG TGGTCCCTGG GAGTGACGGC ATATGAACTG
651 CTGAGAGGCC GGAGACCGTA TCATATTTCG TCCAGTACTT CCAGCAAGGA
701 AATTGTACAC ACGTTTGAGA CGACTGTTGT AACTTACCCT TCTGCTGGT
751 CACAGGAAAT GGTGTCACCT CTAAAAAAGC TACTCGAACC TAATCCAGAC
801 CAACGATTTT CTCAGTTATC TGATGTCCAG AACTTCCCGT ATATGAATGA
851 TATAAACTGG GATGCAGTTT TTCAGAAGAG GCTCATTCCA GGTTCATTTC
901 CTAATAAAGG CAGGCTGAAT TGTGATCCTA CTTTGAAGT TGAGGAAATG
951 ATTTTGGAGT CCAAACCTCT ACATAAGAAA AAAAAGCGTC TGGCAAAGAA
1001 GGAGAAGGAT ATGAGGAAAT GCGATTCTTC TCAGACATGT CTTCTTCAAG
1051 AGCACCTTGA CTCTGTCCAG AAGGAGTTCA TAATTTTCAA CAGAGAAAAA
1101 GTAAACAGGG ACTTTAACA AAGACAACCA AATCTAGCCT TGGAAACAAAC
1151 CAAAGACCCA CAAGGTGAGG ATGGTCAGAA TAACAACCTG TAAAGGCCTC
1201 ATGTCTTCTT CTTGGGACAA TCTCATGCCA GAAACTTCTA ATTACATATG
1251 TCAAGAAAAG CTGACAGTAG CTCCTGCCAC TCCACACACC ATGACTTAGA
1301 AAATGTGAAT GAATATATTT CAAAAAAGGC AGCACAACAC AGTGAAGGGT
1351 CCTGGGCTG AGCTCCTGGA AAGTCATTTT ACATCAATCA ACTGTGTGAT
1401 CTAGAGCAAG TCACTTAGCC ACTTTCTGTG CTTTACTTTA TTTATCTAAA
1451 ATGAGAGGGT TATACTAAAA AAAAAAAAAA AAAAA

```

(SED NO:1)

5'UTR: 1 - 2

Start Codon: 3

Stop Codon: 1191

3'UTR: 1194

Homologous proteins:

Top 10 BLAST Hits

	Score	E
CRA 87000000001426 /altid=gi 7161864 /def=emb CAB76566.1 (AJ25...	560	e-158
CRA 87000000001314 /altid=gi 8923754 /def=ref NP_060871.1 gene...	557	e-157
CRA 103000001515936 /altid=gi 10946600 /def=ref NP_067277.1 hy...	514	e-145
CRA 108000024647823 /altid=gi 12730486 /def=ref xp_003392.2 ge...	395	e-109
CRA 18000005184360 /altid=gi 7505957 /def=pir T23688 hypotheti...	328	8e-89
CRA 18000005184360 /altid=gi 7505957 /def=pir T23688 hypotheti...	226	5e-58
CRA 18000005004115 /altid=gi 1730069 /def=sp P54644 KRAC_DICDI ...	209	8e-53
CRA 18000004912236 /altid=gi 464395 /def=sp P28178 PK2_DICDI PR...	204	3e-51
CRA 18000004991065 /altid=gi 1362152 /def=pir S56639 ribosomal...	203	6e-51
CRA 18000004952305 /altid=gi 462434 /def=sp P34099 KAPC_DICDI C...	202	8e-51
CRA 107000045076305 /altid=gi 12322721 /def=gb AAG51345.1 AC012...		

EST:

	Score	E
gi 12432521 /dataset=dbest /taxon=96...	1362	0.0
gi 12425892 /dataset=dbest /taxon=96...	864	0.0
gi 9811536 /dataset=dbest /taxon=960...	708	0.0

EXPRESSION INFORMATION FOR MODULATORY USE:

gi|12432521 brain hippocampus
gi|12425892 Breast mammary adenocarcinoma cell line
gi|9811536 Bladder carcinoma cell line

Tissue expression:

Human brain
Human fetal brain
Human fetal heart
Human kidney
Human uterus

FIGURE 1

1 MGANTSRKPP VFDENEDVNF DHFEILRAIG KGSFGEVCIV QKNDTKKMCA
51 MKYMNKQKCV ERNEVRNVFK ELQIMQGLEH PFLVNLWYSF QDEEDMFMV
101 DLLLGDLRY HLQQNVHFKE ETVKLFICEL VMALDYLNQ RIIHRDMKPD
151 NILLDEHGHV HITDFNIAAM LPRETQITM AGTKPYMAPE MFSSRKGAGY
201 SFAVDWWSLG VTAYELLRGR RPYHIRSSTS SKEIVHTFET TVVTYPSAWS
251 QEMVSLLKKL LEPNPDQRFQ QLSDVQNFY MNDINWDAVF QKRLIPGFIP
301 NKGRLNCDPT FELEEMILES KPLHKKKKRL AKKEKDMRKC DSSQTCLLQE
351 HLDVQKEFI IFNREKVNDR FNKRQPNLAL EQTKDPQGED GQNNNL
(SEQ ID NO:2)

FEATURES:

Functional domains and key regions:

[1] PDOC00001 PS00001 ASN_GLYCOSYLATION
N-glycosylation site

Number of matches: 2

1 4-7 NTSR
2 43-46 NDTK

[2] PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site

Number of matches: 7

1 5-7 TSR
2 6-8 SRK
3 194-196 SRK
4 45-47 TKK
5 122-124 TVK
6 193-195 SSR
7 6-8 SRK

[3] PDOC00006 PS00006 CK2_PHOSPHO_SITE
Casein kinase II phosphorylation site

Number of matches: 4

1 33-36 SFGE
2 89-92 SFQD
3 212-215 TAYE
4 230-233 SSKE

[4] PDOC00008 PS00008 MYRISTYL
N-myristoylation site

Number of matches: 3

1 2-7 GANTSR
2 197-202 GAGYSF
3 391-396 GQNNNL

[5] PDOC00009 PS00009 AMIDATION
Amidation site

218-221 RGRR

[6] PDOC00100 PS00107 PROTEIN_KINASE_ATP
Protein kinases ATP-binding region signature

29-52 IGKGSFGEVCIVQKNDTKMKCAMK

[7] PDOC00100 PS00108 PROTEIN_KINASE_ST
Serine/Threonine protein kinases active-site signature

142-154 IHRDMKPDNILL

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	197	217	0.690	Putative

FIGURE 2A

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

BLAST Alignment t T p Hit:
Alignment to top blast hit:
>CRA|87000000001426 /altid=gi|7161864 /def=emb|CAB76566.1| (A)250840
serine/threonine protein kinase [Mus musculus] /org=Mus
musculus /taxon=10090 /dataset=nraa /length=414
Length = 414

Score = 560 bits (1428), Expect = e-158
Identities = 278/403 (68%), Positives = 320/403 (78%), Gaps = 7/403 (1%)
Frame = +3

Query: 3 MGANTSRKPPVFDENEDVNFDFHFEILRAIGKGSFGVCIVQKNDTKKMCAMKYMKNQKCV 182
MG N S KPPVFDENE+VNFDFH+ILRAIGKGSFG+VCIVQK DTKKM AMKYMKNQKCV
Sbjct: 1 MGGNHSHKPPVFDENEVNFDFHFIILRAIGKGSFGKVCIVQKRDTKKMYAMKYMKNQKCV 60

Query: 183 ERNEVRNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE 362
ER+EVNRNVF+ELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE E
Sbjct: 61 ERDEVNRNVFRELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE 120

Query: 363 ETVKLFICELVMALDYLNQRIIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTM 542
TVKL+ICEL +AL+YLQ IIHRD+KPDNILLDEHGHVHITDFNIA +L + ++M
Sbjct: 121 GTVKLYICELALALEYLQRYHIIHRDIKPDNILLDEHGHVHITDFNIATVLKGSEKASSM 180

Query: 543 AGTKPYMAPEMFS--SRKGAGYSFAVDWWSLGVGTAYELLRGRPPYHIRSSTSSKEIVHTF 716
AGTKPYMAPE+F G GYS+ VDWWSLGVGTAYELLRG RPY I S+T EI++ F
Sbjct: 181 AGTKPYMAPEVFQVYVDGGPGYSYPVDWWSLGVGTAYELLRGWRPYEIHSA TPIDEILNMF 240

Query: 717 ETTVVVTYPSAWSQEMVSLKKLLEPNPDQRFSQLSDVQNFPMNDINWDVAFQKRLIPGF 896
+ V Y S W + MVSLKKLL +P+ R S L D+Q+ Y+ D+NWDVAF+K L+PGF
Sbjct: 241 KVERVHYSSTWCEGMVSLKKLLTKDPESRLSSLRDIQSMYTLADMNWDVAFKALMPGF 300

Query: 897 IPNKGRLNCDPTFELEEMILESPLHKKKKRLAK-KEKDMRKCDSSQTCLLQEHLDVQK 1073
+PNKGRLNCDPTFELEEMILESPLHKKKKRLAK + +D K LQ+ L++V+K
Sbjct: 301 VPNKGRLNCDPTFELEEMILESPLHKKKKRLAKHRSRSTKDCSPLNGHLQQCLETVRK 360

Query: 1074 EFIIIFNREKVN---DFNKRQPNLALAEQTKDPQGEDGQNNNL 1190
EFIIIFNREK+ R D + + + +DG+NNN+
Sbjct: 361 EFIIIFNREKLRRQGGHQLSDLDGRIGSQTSKQLQDGRNNNI 403 (SEQ ID NO:4)

>CRA|870000000001314 /altid=gi|8923754 /def=ref|NP_060871.1| gene for
serine/threonine protein kinase [Homo sapiens] /org=Homo
sapiens /taxon=9606 /dataset=nraa /length=414
Length = 414

Score = 557 bits (1419), Expect = e-157
Identities = 275/403 (68%), Positives = 319/403 (78%), Gaps = 7/403 (1%)
Frame = +3

Query: 3 MGANTSRKPPVFDENEDVNFDFHFEILRAIGKGSFGVCIVQKNDTKKMCAMKYMKNQKCV 182
MG N S KPPVFDENE+VNFDFH+ILRAIGKGSFG+VCIVQK DTKKM AMKYMKNQKCV+
Sbjct: 1 MGGNHSHKPPVFDENEVNFDFHFIILRAIGKGSFGKVCIVQKRDTKKMYAMKYMKNQKCI 60

Query: 183 ERNEVRNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE 362
ER+EVNRNVF+ELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE E
Sbjct: 61 ERDEVNRNVFRELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFE 120

Query: 363 ETVKLFICELVMALDYLNQRIIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTM 542
TVKL+ICEL +AL+YLQ IIHRD+KPDNILLDEHGHVHITDFNIA ++ + ++M
Sbjct: 121 GTVKLYICELALALEYLQRYHIIHRDIKPDNILLDEHGHVHITDFNIATVVKGAEASSM 180

Query: 543 AGTKPYMAPEMFS--SRKGAGYSFAVDWWSLGVGTAYELLRGRPPYHIRSSTSSKEIVHTF 716
AGTKPYMAPE+F +G GYS+ VDWWSLG+TAYELLRG RPY I S T EI++ F
Sbjct: 181 AGTKPYMAPEVFQVYMDRGPYSGYPVDWWSLGITAYELLRGWRPYEIH SVTPIDEILNMF 240

Query: 717 ETTVVVTYPSAWSQEMVSLKKLLEPNPDQRFSQLSDVQNFPMNDINWDVAFQKRLIPGF 896
+ V Y S W + MV+LL+KLL +P+ R S L D+Q+ PY+ D+NWDVAF+K L+PGF
Sbjct: 241 KVERVHYSSTWCKGMVALLRKLTKDPESRVSSLDHIQSVPYLADMNWDVAFKALMPGF 300

Query: 897 IPNKGRLNCDPTFELEEMILESPLHKKKKRLAK-KEKDMRKCDSSQTCLLQEHLDVQK 1073
+PNKGRLNCDPTFELEEMILESPLHKKKKRLAK + +D K LQ L++V++
Sbjct: 301 VPNKGRLNCDPTFELEEMILESPLHKKKKRLAKNRSRGTGKDCSPLNGHLQHCLQETVRE 360

Query: 1074 EFIIIFNREKVNDFNKRQPNLALAEQTKDPQ-----EDGQNNNL 1190
EFIIIFNREK+ R + L + Q +DG NNNL
Sbjct: 361 EFIIIFNREKLRRQGGQGSQQLDTSRGGGQAQSKLQDGCNNNL 403 (SEQ ID NO:5)

FIGURE 2B

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

>CRA|103000001515936 /altid=gi|10946600 /def=ref|NP_067277.1|
hypothetical serine/threonine protein kinase [Mus
musculus] /org=Mus musculus /taxon=10090 /dataset=nraa
/length=488
Length = 488

Score = 514 bits (1310), Expect = e-145
Identities = 250/389 (64%), Positives = 304/389 (77%), Gaps = 4/389 (1%)
Frame = +3

Query: 18 SRKPPVFDENEDVNFDFEILRAIGKGSFGVCIVQKNDTKKMCAMKYMKNQKCVNEREV 197
S + PVFD+ EDVNFDFH+ILRAIGKGSFG+VCIVQK DT+KM AMKYMKNQ+C+ER+EV
Sbjct: 77 SARRPVFDDKEDVNFDFHFIILRAIGKGSFGKVCIVQKRDTEKMYAMKYMKNQQCIEDEV 136
Query: 198 RNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFKEETVKL 377
RNVF+EL+I+Q +EH FLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNV F E+TV+L
Sbjct: 137 RNVFRELEILQEIEHVFLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVQFSEDTVRL 196
Query: 378 FICELVMALDYLQNQRRIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTMAGTKP 557
+ICE+ +ALDYL++Q IIHRD+KPDNILLDE GH H+TDFNIA ++ + T +AGTKP
Sbjct: 197 YICEMALALDYLRSQHIIHRDVKPDNILLDEQGHALHTDFNIATIIKDGGERATALAGTKP 256
Query: 558 YMAPEMFSS--RKGAGYSFAVDWWSLGVATAYELLRGRRPYHIRSSTSSKEIVHTFETTVV 731
YMAPE+F S G GYSF VDWWS+GV AYELLRG RPY I SS + + +V F T V
Sbjct: 257 YMAPEIFHSFVNGGTGYSFEVDWWSVGVMAYELLRGWRPYDIHSSNAVESLVQLFSTVSV 316
Query: 732 TYPYSAWSQEMVSLKKLLEPNPDQRFSQLSDVQNFPMNDINWDAVFQKRLIPGFIPNKG 911
Y WS+EMV+LL+KLL NP+ RFS L D+Q P + + WD + +K++ PGF+PNKG
Sbjct: 317 QYVPTWSKEMVALLRKLLTVNPEHRFSSLDQMGTAPSLAHVLWDDLSEKKVEPGFVPNKG 376
Query: 912 RLNCPTFELEEMILESPLHKKKKRLAKKEKDMRKCDSSQT--CLLQEHLDVQKEFII 1085
RL+CDPTFELEEMILES+PLHKKKKRLAK + DSSQ+ LQ+ LD++Q++F+I
Sbjct: 377 RLHCDPTFELEEMILESRLHKKKKRLAKNKSRSRDSSENDYLDQCLDAIQQDFVI 436
Query: 1086 FNREKVNDRFNKRQPNLALEQTKDPOGED 1172
FNREK+ KR L E P+ D
Sbjct: 437 FNREKL-----KRSQELMSEPPPGPETS 460 (SEQ ID NO:6)

>CRA|108000024647823 /altid=gi|12730486 /def=ref|XP_003392.2| gene for
serine/threonine protein kinase [Homo sapiens] /org=Homo
sapiens /taxon=9606 /dataset=nraa /length=330
Length = 330

Score = 395 bits (1004), Expect = e-109
Identities = 199/316 (62%), Positives = 237/316 (74%), Gaps = 7/316 (2%)
Frame = +3

Query: 264 YSFQDEEDMFVVDLLGGDLRYHLQQNVHFKEETVKLFICELVMALDYLQNQRRIHRDM 443
YSFQDEEDMFVVDLLGGDLRYHLQQNVHF E TVKL+ICEL +AL+YLQ IIHRD+
Sbjct: 4 YSFQDEEDMFVVDLLGGDLRYHLQQNVHFTGETVKLYICELALALEYLQRYHIIHRDI 63
Query: 444 KPDNILLDEHGHVHITDFNIAAMLPRETQITTMAGTKPYMAPEMF--SRKGAGYSFAVD 617
KPDNILLDEHGHVHITDFNIA ++ + ++MAGTKPYMAPE+F +G GYS+ VD
Sbjct: 64 KPDNILLDEHGHVHITDFNIATVVGAEASSMAGTKPYMAPEVFQVYMDRGPYGYSPVD 123
Query: 618 WWSLGVATAYELLRGRRPYHIRSSTSSKEIVHTFETTVVTYPSAWSQEMVSLKKLLEPNP 797
WWSLG+TAYELLRG RPY I S T EI++ F+ V Y S W + MV+LL+KLL +P
Sbjct: 124 WWSLGITAYELLRGWRPYEHSVTPIDEILNMFKVERVHYSSTWCKGMVALLRKLLTKDP 183
Query: 798 DQRFSQLSDVQNFPMNDINWDAVFQKRLIPGFIPNKGRLNCDPTFELEEMILESPLHK 977
+ R S L D+Q+ PY+ D+NWDVAF+K L+PGF+PNKGRNCDPTFELEEMILESPLHK
Sbjct: 184 ESRVSSLHIQSVPYLADMNWDVAFKKALMPGFVPNKGRLNCDPTFELEEMILESPLHK 243
Query: 978 KKKRLAK-KEKDMRKCDSSQTCLLQEHLDVQKEFIIFNREKVNDRFNKRQPNLALEQTK 1154
KKKRLAK + +D K LQ L++V++EFIIIFNREK+ R + L +
Sbjct: 244 KKKRLAKNRSRDGTDKSCPLNGHLQHCLTVREEFIIFNREKLRRQQGQSLLDTSRG 303
Query: 1155 DPQG----EDGQNNNL 1190
Q +DG NNNL
Sbjct: 304 GGQAQSKLQDGCNNNL 319 (SEQ ID NO: 7)

>CRA|18000005184360 /altid=gi|7505957 /def=pir||T23688 hypothetical
protein M03C11.1 - Caenorhabditis elegans
/org=Caenorhabditis elegans /taxon=6239 /dataset=nraa
/length=379
Length = 379

FIGURE 2C

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

Score = 328 bits (833), Expect = 8e-89
Identities = 156/353 (44%), Positives = 226/353 (63%), Gaps = 2/353 (0%)
Frame = +3

Query: 66 HFEILRAIGKGSFGEVCIVQKNDTKKMCAMKYMKNQKQKVERNEVRNVFKELQIMQGLEHP 245
HF ++R+IG+G+FG+VCIVQ+ TTK A+KYMKN++C+E+ NV +EL ++ + HP
Sbjct: 27 HFSVIRSIGRGAFGKVCIVQERKTKKYFALKYMNKRRRCIEKGVAANVIRELTLLSKMSHP 86

Query: 246 FLVNLWYSFQDEEDMFVVDLLGGDLRYHLQQNVHFKEETVKLFICELVMALDYLNQR 425
F+VNLWY+FDQ + M+MV DLLLGGDLRYHL Q F E+ KL++CE+ +A++YL +
Sbjct: 87 FIVNLWYTFQDGDYMYMVSDLLGGDLRYHLSQQGKFAEDRAKLYLCEICLAVEYLHEMK 146

Query: 426 IHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTMAGTKPYMAPEMFSS--RKGAG 599
I+HRD+KP+NILLDE GH H+TD N+A L + T+ +GT+PYMAPE++++ G
Sbjct: 147 IVHRDIKPENILLDEQGHHLTDLNLATQLEDDQLATSYSGTRPYMAPEIYATYLEIEDG 206

Query: 600 YSFAVDWWSLGVTAPELLRGRPPYHIRSSTSSKEIVHTFETTVVTYPSAWSQEMVSLKK 779
Y VDW+LGV YE+LRGR P+ S T +E F + + YP+ W +++ +
Sbjct: 207 YDSRDWWALGVCFYEMLRGRTPFEFSSRTKPEEAYVAFRESSIPYPAHWPTDIQFINS 266

Query: 780 LLEPNPDQRFSQSDVQNFPMNDINWDAVFQKRLIPGFIPNKGRLNCDPTFELEEMILE 959
+L+ + ++R L ++ Y I++ +VF+K+ P FIP K LNCDP +ELEE IL
Sbjct: 267 MLKFDKEKRLVGLAIAKKHSYTERIDFKSVFEKKPSVPFIPCKEGLNCDPMYELEERILV 326

Query: 960 SKPLHKKKKRLAKKEKDMRKCDSSQTCLLQEHLDVQKEFIIFNREKVNRFN 1118
S P+H ++R R Q L E V K FI F+R V + N
Sbjct: 327 STPIH--RRRTNHNSSGRSSSEPQNAALVE----VSKAFIDFSRHNKIEPN 373 (SEQ ID NO: 8)

Hammer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
PF00069	Eukaryotic protein kinase domain	241.7	1e-68	1
CE00359	E00359 bone_morphogenetic_protein_receptor	18.9	0.00012	1
PF00433	Protein kinase C terminal domain	8.8	0.2	1
CE00022	CE00022 MAGUK_subfamily_d	8.6	0.02	1
CE00203	CE00203 ERBB_RECEPTOR	6.0	0.25	1
CE00031	CE00031 VEGFR	5.1	0.12	1
CE00528	CE00528 CDC14_PHOSPHATASE	1.7	8	1
CE00292	CE00292 PTK_membrane_span	-44.9	1.9e-06	1
CE00287	CE00287 PTK_Eph_orphan_receptor	-45.1	2.4e-05	1
CE00286	E00286 PTK_EGF_receptor	-59.9	1.7e-07	1
CE00291	CE00291 PTK_fgf_receptor	-81.9	0.00049	1
CE00290	CE00290 PTK_Trk_family	-158.8	0.00022	1
CE00016	CE00016 GSK_glycogen_synthase_kinase	-216.0	0.00011	1
CE00288	CE00288 PTK_Insulin_receptor	-225.8	0.21	1

FIGURE 2D

Docket No.: CL001160DIV II
 Serial No.: TO BE ASSIGNED
 Inventors: Jane Ye et al.
 Title: ISOLATED HUMAN KINASE ...

Parsed for domains:									
Model	Domain	seq-f	seq-t		hmm-f	hmm-t		score	E-value
CE00031	1/1	134	168	..	1059	1093	..	5.1	0.12
CE00203	1/1	136	172	..	855	891	..	6.0	0.25
CE00359	1/1	142	191	..	272	326	..	18.9	0.00012
CE00022	1/1	133	223	..	133	226	..	8.6	0.02
CE00288	1/1	23	238	..	1	269	[]	-225.8	0.21
CE00528	1/1	251	260	..	608	617	[]	1.7	8
CE00292	1/1	23	276	..	1	288	[]	-44.9	1.9e-06
CE00287	1/1	23	276	..	1	260	[]	-45.1	2.4e-05
CE00291	1/1	23	278	..	1	285	[]	-81.9	0.00049
CE00286	1/1	23	278	..	1	263	[]	-59.9	1.7e-07
CE00290	1/1	23	279	..	1	282	[]	-158.8	0.00022
PF00069	1/1	23	281	..	1	278	[]	241.7	1e-68
PF00433	1/1	282	301	..	1	20	[]	8.8	0.2
CE00016	1/1	1	331	[]	1	433	[]	-216.0	0.00011

FIGURE 2E

1	TCCCTCTCTC	ATACCATTTA	ATTGGTTGCT	TCCTAATTAA	TGACTCTCTT
51	TGCTCTCTAT	TTAATGATTG	TTGCTAAAGT	CCATAAGGCA	CTTTGCCAGC
101	AGTTGGTTTT	TAGTATGAAA	AGTAGCATTT	CCTTAATGAG	TCTGAGTCTG
151	CCTTCCAAAT	GAAGGGTTTA	CTTACATTTT	CCTAATGGGA	AAACGAGCTT
201	TTCTTCTACG	CTTCTTAGG	GGTTTCATAA	GTTCTTTTTC	AATAACTCAT
251	CCTTAACACT	TTCTCCAATT	CTGCCTGTAA	TCAATATTCC	CTTCACATGT
301	AAAGAGCTCA	GGAGGAAATC	AACTATTTTT	TTAAAAATAC	GCAATAAGGA
351	AATTCTGCTA	CTCTTAGAAA	TAGCAGGAGC	TAACATTCAT	TCTTTGCATA
401	TCATGTGCTA	GGCATTGTGC	CAATTACCTT	ATATACATTG	TCTCATTATA
451	TGTATCCATG	ACCATATATG	TGCTAAGCAT	GAAATTTTCT	TAAGCCAGAT
501	AGCTGAGTAG	AATTTTAAAA	TATTATTTTG	TACAAAATCT	AGACCTTTAC
551	CCCATTGGG	GGATAGATCT	GAAGATCTGG	GCTCATGTTT	CCATGTGGTG
601	ACAATCTGTT	TGATCTGAGC	ACAATTACTT	TATTTGGATG	GAGCCATTGC
651	CACCATTTGC	TGCCCAATGC	ACTAATGTTA	AATGCCCAGT	CTGGCTCACT
701	CATTTGCATC	ATCTGCCTGG	CTCCTATAGG	GATCCCAGCT	TGTCACTCCT
751	GAGGTAGACA	CTGTCATTTT	CCCCATTCTA	GAGGTGAGAG	GTTACATAAC
801	TGGGCCAAAG	GCATTATCAG	TGTCAGTTTT	AGGACTGGAA	CACAGGATGC
851	TGCCTCTCTT	TACCATTATG	TTTTAAAGTG	GAGCAAAGCC	GTAGTTTTCA
901	GGATCTTTTC	TTGTTACAC	ATATCATTTA	ATTTGAGCCT	CAGAGCGGCT
951	AACAGTTTTG	AGCACTTATG	CTATGAAAAT	GTTTTGTGTA	TTCAAGTTAAA
1001	TGTATGCATA	TCATACATTT	ATGTAECTCA	ATACATATAT	ATAAATGTGA
1051	TATAACATAC	GTATGATATA	ACAGAGTTAT	ATATATGTGT	ATTATTTAAC
1101	TTAATATATA	ATGAGTTAAG	TGTATGCATA	TCATAGATTT	ATGTAECTCA
1151	ATATATAAAG	AGTTATATAA	TACAACAGAG	TTGATATATA	TATAAATGTT
1201	GTATATAAAC	ATAATATATA	CGTTAATATA	TATTAACAAA	GAGTTGTATA
1251	ATACAACACA	GAGTTAATAA	TATATAAATA	CAACACAAAG	AGTTATATAT
1301	GTGTGTATTA	TACATTTAAC	TTAATATATA	ATGAGTTAAA	TGTATGTCTG
1351	TCCCATTCAA	CTCTCCATTG	AGGAAAAGTAC	CATTATCTTC	CCCAAGTTCA
1401	GAAGAAAGAA	ACAGAGAAAT	ATATTGAAAT	TCAGCAATTT	GCTGGTGTGG
1451	TCAAGTCCAA	CCCAGAACTT	GCTTCTTTTA	CATTGTAGTA	CCCTCCAGGG
1501	TATGCAGAAA	CAGATAGCTA	GTGCATCTTT	ATGACTAAAA	AAGAAAATTT
1551	TTGTTGTTGA	TTACCCAGTA	ACAACAAGAC	AGTATAAAAT	CAGCATATTT
1601	TCTCAACAAT	ATTTTCATTT	TATAGTTGTT	GAATAAAGTA	TTGCTGACTT
1651	CATTTTAAAC	TTTTCTACAT	ACTTTGAAAA	ATATGTTGCT	TTCTCTCCAT
1701	TTTGTAAGTC	TAGGTCTGCT	ATTGATGAGC	CATGCAGTGT	TTTCTCCTGT
1751	TGCTTGATGT	TTTTATTCTG	AAATCATGGT	TGGTTTTCAA	ACACAAAAGT
1801	TTTCACTACA	GTGATACAGA	TGAGGTTTAT	GTTTCCGCCA	CAGTCTATAC
1851	TCAGGGTGCC	TAGAGTATAG	CATATTATTA	GGGTACTATT	TCTTTTCCTA
1901	TCCTAGATAT	CCAACTAAGG	CTTCGGGACA	TGTTTTGAGC	GAAGATGGGT
1951	GTTTCTGCCC	GGATAGTATA	AATCGAGGAT	CCAGGTCTGG	GCAGATTCAA
2001	CCATGGGAGC	GAACACTTCA	AGAAAACCCAC	CAGTGTTTGA	TGAAAATGAA
2051	GATGGTAAGA	AATATGGGAT	AGTGGCATAT	AAAAAATAGA	ATTTTGCAAA
2101	ATTCAAGTAT	ATGCTTCTAG	TTTCATAAGT	TAAGCATAAG	CATGGTCTGT
2151	AGGGCCTTGA	AGGAAAAAGG	CAAAGCTGCA	TGAGTGAGTC	TGAGGACTTT
2201	GTAGGCTCAT	AGCTAGGTTT	TACCTTCCAC	TTTCCATGGG	ACCTTTGGCA
2251	GCTTTCTCTA	TCTCCACTAT	ACCAATGTCC	TTTGTCCAAA	GGGAGCTGCA
2301	GTTGGGCATG	TGGTGGATAG	TTAAATGATT	TGTTTGTCTT	CTGTGCTGTT
2351	CCTTGGCAGT	TGAAGTTACC	CCCATTGCTC	ATTGTTACAG	AAAATACATT
2401	ATCAACATGT	ACATGAATGA	TAACCAAGTC	TCATAATATT	ATAGAATGAA
2451	GCTGTGCCTT	CTGAATTTCC	AACTGCCAAG	CTTTTGTGTA	CTAGACAAAT
2501	CCCATAATGC	TACGTCATAG	AAAAAAGAAT	CAGTTGTATT	GGAGAAAAGG
2551	GAAACTTTCC	AGGCCAGACT	CAGCAAGACA	AGAATAAAGG	CATGAGTCCT
2601	CCTGATTCTC	CCATCAGTGA	GGCATGCTGG	AACTGGGCAA	TGCCTCCTCA
2651	TGTCCCTCTT	CCTTCCTATA	TGTTAAGTCT	GAACAGCATT	GGCGTATGCA
2701	GGTGGCAGCT	GTTTATAGGT	TGTCTGGGGG	AAAAAATATG	CCCAAGCCCC
2751	AGGTAGTAAG	TTGTCCAGAC	CTCTGAGAGG	GAGCTCTTCC	GAGTAATTCC
2801	CAGAGAGCTC	TGCTAATTGG	AACAGGGAGG	AAAAGAATGG	ACTGAAATTC
2851	AGGAAATCTG	ACACCAAGTC	TACTACCACT	TACTTGCTAG	GCCCAAGCAG
2901	CTTATTTACT	GACTCTATCT	TCAATTTTGT	TATCAATAAA	GTGAGGAGAT
2951	AGGTTCCTTC	CCACTCAAGA	AGTTTATCAT	TTTGAGATCC	TAAAGCAACT
3001	TTGTGAATTC	TGAAGAAGCT	TCTAAATCAT	CAAGGAAAGT	TTATTGGGTT
3051	AGAATGCAAG	TTTGATTGCT	GAAATGAAAA	CTACAAATAA	CAGTGGCTTA

FIGURE 3A

3101	AGCCAAATGG	AAATGTTTAT	CTTTCTCATG	TGACAATCTA	GGCATAAGTA
3151	ATCCAGGTGA	TGTGTGGTTC	CAGCAGCTTA	GGGACTCTGA	CGCCAACTAC
3201	TTGCCTTTTT	CCCTCTCTTC	CCATTTCTAG	AGTGGTACCC	TCAGAGTGGC
3251	TAACCAACAC	AACAAATTCC	AGCCAGTGAG	AAAGGTGGAA	AGTAGGAGAG
3301	GTTATGCCCA	CTTATTTATA	GGATTTGCTC	TGGCTTGTCA	CTTTCGTTCA
3351	CTTCCACTTA	CCTAGATACA	AGAAAGACTG	GGAAATTGAG	TTTGTATCT
3401	TGGGTGGCCA	TGAACCTTCT	AAAAATAAGG	AGTTCTGTTT	TATTACAAAA
3451	GAAAAGAAGA	ATTAGGAGTT	TGTCATGATT	GGGACAACCT	ACGTCTGCTG
3501	TAGTTGGGGC	AAACAATCTT	AGTTTTGAAT	CTTGGGATGG	AAATACTTTT
3551	AAAAACAAA	TATGGGCCAG	GCGCGGTGGC	TCACGCCTGT	AATCCCAGCA
3601	CTTTGGGAGG	CCGAGGCGGG	CGGATCACGA	GGTCAGGAGA	TCGAGACCAT
3651	CCTGGCTAAC	ACGGTGAAAC	CCCGTCTCTA	CTAAAAAATA	CAAAAAATTA
3701	GCCGGGCGTG	GTGGTGGACG	CCTGTAGTCC	CAGCTACTCG	GGAGGCTGAG
3751	GCAGGAGAAT	GGCGGGAACC	CGGGAGGTGG	AGCTTGCACT	GAGCCGAGAT
3801	CCGGCCACTG	CACTCCAGCC	TGGGCGACAG	AGCGAGACTC	CATCTCAAAA
3851	CAAAACAAAC	AACAAACAAG	CAAAAAAACC	CAAAATATAT	GGCTGATCAG
3901	GACGCCTTGT	TTCAAGCTAT	TCACTATCAG	TTTGGAGGCC	CATTCTTACT
3951	ATTTCTACAG	AATAGTTCAT	AGGAACCTTG	AAATTATATA	GCTGGAAAGG
4001	GGTCTTAAGA	AAACTTTTTT	TTTATGGCTA	TTGTGATTGC	CTTGCTTTAA
4051	CTTATCAAAT	AGTAAAAGCA	AAGATCTAGA	GACTAGTGAT	ATTACTTAAT
4101	TTTTCTGTCT	CTAAAATGGA	AAGACAAATA	GGCTTGCTTT	TCATTTAGTT
4151	GGTTTCCTCT	GCTTCCTCTG	GACTCAGAGC	TAATGTTGTA	CATGAGGCTG
4201	GTCGTACAG	AATAGGGTGG	AAAAGAGAGG	CCAGCTGCAT	ACTTTTAACT
4251	TGCTGGGCTA	CATTTGAAGG	TAGTAGAATA	GCATTATGAT	GAGAAAACAC
4301	AGAAATGCAT	AACTCTTCCT	TGATTCAGCC	AGGCTTTGTT	CTTGCGGGAT
4351	GCCCAAGAAA	GCTACATAAC	CAAAGAATTG	TGACAATTGG	GAAATAAGAT
4401	ACCCCTTTTT	AGTTACTTTA	AAGGACTCTA	GAAAAACTAG	GTTGAAGGAG
4451	AGTTAGGCTT	AGGGACCAGA	CAGGTCTTTC	TTAACACCCT	CTAGGTCACC
4501	ACCTTTTCTG	TTGTCTGGCT	TCTCAGCCCA	ATGAGATGAA	CCCACTGCAG
4551	CACCCATAAA	GGAAAGATCT	GAGCATAGCA	ACAAGTCTGT	GCCTCCCAAA
4601	GGTGCTAGGC	TCTCTGTCTG	TTTATGCAGA	CAGTTGCAAG	GCAAAGGAAG
4651	TAGGAGGGCA	AGTCCACCTA	CTATAAACCT	GTCACCTCT	AGACATGAAG
4701	AATAGAGGAG	GAAACAAGTT	GGTCCTTGCT	CTGTCAATTG	GAACCCCATG
4751	TTCTGATGAT	GGAAGGCTGA	CAATAAAAAAG	GTAAATAATA	CATAAACCCAG
4801	ATAATTTCAC	AGTGCCTTAA	AGTGCCACCA	AGGAAATGAC	TCCTAGTGAT
4851	CTTACAGACA	GTGACAGTGA	TGGTGAGGAG	GCCACTTTAG	ATAGGGTGGC
4901	TGCGGTTGTC	TTTCTAAGGA	GGTGACATTT	GGGCTGAAGC	CTGAAAGATG
4951	AGAAGAAGCC	ATCTATGAAA	TGACATGAAA	AGAATAGTTC	AAGAACAGGA
5001	AAAACAAGTC	CAAAATCCAA	ATAATGACAA	AATCAGGATT	GAATAGTTGC
5051	CTATATCTTA	ACGTTCTCTC	ATGAGCACTA	GTTTGCCAAA	GAGACTGCAT
5101	TTATTGCCAT	GTAACTTAT	TTCTTCAAAA	GATGATTGAT	TTGAGGAGAA
5151	AAAGTATGCC	ATTCTAGGGA	ATTTACTTTG	CTTTAAAATT	CAGTACATTT
5201	TGTAAAGTTC	ATTTGACTCT	TCACATAAAT	CTGGATTGAG	CACAAGGTAA
5251	AATTGTATCT	GATTGCTGTG	AAGCTCCTGA	CCAAGAAAAA	GCAACCAAAA
5301	AGCACTGATT	AACCAAAACA	CATTAATGCT	TATGTCATTT	TTGATATCCA
5351	TATTTTTATA	TACATAATCA	TAATGTATAA	TCAAACCTGG	CCAGTATCAA
5401	GGGCACTAAA	ATGAGCCAAC	TTAATTATTT	AAAAAATATT	GCTGAAAAGA
5451	ATCCCAATAT	GTGATTTTTA	AAAAGTTTTT	TAAAATTTTT	AAAAAGATTT
5501	TTTTAAAGAT	TTTTAAAAAT	ATTTTCTTCA	AACTGTTTAA	TATTTCCAAT
5551	ATATAGATAT	GAGAAAAACA	TTTAACCAAT	AATTTTCCCA	AGTAATGTTT
5601	CAAGAATTCT	CTCTTATGGA	AAAAGTGTTT	TTGTTCACTT	TGAAGGTAAT
5651	TAAAGAGCAA	GATAAGAGGT	TATTGGATGT	CCCTTGAGAT	AAGCTATTCT
5701	TGCCAGAATT	CATCCTGACA	CTTGATTTTC	ATGTTGTTCC	ATCTGATATC
5751	TGATCTTGAA	CACATAATTT	TATTAGTTAC	TTATGTTGAT	CTTTATTGAG
5801	CAAAAACAAA	GTAGGAGATT	TTCAGGCTAG	GCATGGTTGC	TTACGCCTGT
5851	AATCCCAGCA	CTTCAGGAGG	CCGAGGCGGG	CAGATCACGA	GGTCAAGAGA
5901	TCGAAACCAT	CCTGGCCAAC	ATGGTGAAAC	CCCATCTCTA	CTAAAAAATA
5951	CAAAAAAAAT	TAGCTGGGCA	TGCCAGTGTG	CGCCTGTAGT	CCCAGCTATT
6001	CAGGAGGCTG	AGGCAGGAGA	ATCTCTTGAA	CCTGGGAGGT	GAAGTTTGCA
6051	GTGAGCTGAG	ATTGCTCCAC	TGCACTCCAG	CCTGGCAACA	GAGCAAGACT
6101	CTGTCCAAAA	AAAAACGGCT	TGCTTATTTG	ATTATATAAG	ATATCTTTCA
6151	TAAATTAGAT	CTCAAATTAT	ACTATTGTTT	TGCAGTTTTA	GCTTTTATGT

FIGURE 3B

6201	TTTAGGGCAA	ATCTTAAGTC	CTAATTACTT	TTTTTTTATT	ATTGTGGTAA
6251	AATGTATATA	ACAAAATGTA	CCATTTAATC	ATTTTAGAAT	ATACGGTTTA
6301	TGACATTAAG	CACATTCACG	TTATCATGCA	ACCATCACCA	CTACCCATCC
6351	TCAGAACATT	TCTCTTCTCG	AATTGAAACT	TGGTACCTCT	GAAACAATAA
6401	CATCCACATT	CCATCCCCTC	CCCAGTCCCT	GTAAACAAC	CATTTGACTT
6451	TATGTCTCTA	TGAATTTAAC	TACTCTATGT	ACCTCATATA	AATGGAACAT
6501	ATAAGATTTG	TTCTTTTGCA	TCTGGTTTAT	TTCAATTTAGC	ATATATTTTT
6551	AAGGTTTCATC	CATGTTGCAG	CATGTGTCAA	GATTCTCTTT	CTTTTTAAGT
6601	CTGAGTCGTA	TTCCATTGTA	TGGATATACC	ACATTTTGTT	TATCTTTTCA
6651	TTAGTTGACA	TTGATTGTCC	TCACCTTTTG	ATTTTTGTGA	ATAAGGCTGC
6701	TATAAACATT	GGTGTGCAAA	TATCTGTTCA	AGTCCCTGTT	TTCAATTCTT
6751	CAGGGTATAT	ACCTAGAAGT	GGAAGCACTG	GATCATATAA	TTCTTTGTTT
6801	GACTCTCTGA	GGAACCATCA	TACTGTCTTC	TACCTAATTA	TGCTTTGTGT
6851	TTTAGTAATG	GGACACAGCC	TGGCATGATG	GGCTAGAGTA	TTGGAAAGGC
6901	ATGCACAGGT	TCAAGTCTCA	GCTGTGCCAC	GTGCCAGTAA	TCTACATGTT
6951	TCTATGAGAA	GAGTCAAAGA	GGATATAGCC	TGGTCAACCA	TTATCAGACA
7001	CTGGAGTCAG	TTTGACTAAT	TATATGGTGT	TCTAAGGAAA	CTTGAGGTAC
7051	CACAAGAAAA	GTCTCCAAAT	CTAAATAATT	ACTAATGAAT	TAATTGAGGG
7101	GGAAACTTAT	TTAACCTTTG	TAAGCCTCAG	TTTCTTTGTA	TGTAAAATGC
7151	AGGTAATAAT	TGGGCATACT	TCATTAGGTC	TTTGTGAGGA	TTGAATAAAT
7201	AATGCAAGTA	AAACACTTAG	CAAAGTATTT	CCCATAAAGT	AACCACTCAA
7251	TTAAGCTAA	TTAAGTGTTA	TTTACTAACA	TCAGAGTTTC	CTAGTGTGAA
7301	CTCTTTGAAG	TACTTTAAGT	TCTGAGAAAA	ACAAAATTAA	TTAAATGCAA
7351	CTCTGTGCGAT	TCCACAGTTA	ATTAGACCTA	TTCATGTTTC	TATTGACTGG
7401	ATTAACAGAA	CGGCAGATTT	TATGGATTCT	GTTAAAACCT	ATATAAAAAC
7451	ACTTTAAAAG	AAGCCAAGTT	ATTGACTGCA	CAAAAACATA	ATCTCATCTG
7501	ATATCTTTTT	TATCCCCCTG	AGGTTATTGT	GTTTTTGTTT	AAGGCAAAAT
7551	CAAGAATAAT	TTGGGATGAA	AATAACTAAA	GTTTACTTTG	TCTGATTTAA
7601	GTCCCAAAC	GACTAATAAG	TAATCCCATT	TGATCAACAG	ATTCAGTGAA
7651	AACTGTCCCC	CATTCTCAAC	TACCATATGG	ATATTCTGAG	AAATAATTAA
7701	TGATGCAGAA	AAACATTTTT	TGTTTTCTGA	AATAAAAAGAA	TAGACGTGCA
7751	AGTGACACTT	CTTTTTAATG	CTTACAACCT	TTTTTTAAAA	ATCTACTTTA
7801	TTTTCTCTAT	CTGAATGCAC	TAGATTTTGT	TTGTTTGTTT	TTGTGGTTGG
7851	TTGGTATGGT	TTTGCTTATT	GAGGTTTTCA	GGCTGATTTA	GAAAAAAGAA
7901	ATTTTTACAG	GAGAGAGTGG	ACTTGTTTAC	AATTCAGAGT	TGAGGCAACA
7951	AAAAAAAATC	TTGCAGTCAT	TATGAGTAAT	ATGTGTATCC	AAGTTTATAC
8001	AAAGAATGTA	AAGGTGATAA	AGTTGGCTTA	GTTAAATCAA	GAGACAGCCT
8051	TCTTCTAGAA	TATTATAGCT	AAGAAAATTT	GGACTTAAGT	TTAAAAAGCT
8101	GCTCTAAAGA	GTTTCATCAAT	GCCCTGAGTT	TGCAGAGAGT	TCAATTATTG
8151	CATTATCTTT	TGGACTTGCT	GAAAACTCAG	TGTTCTACTT	TTATTTGGCA
8201	ACACCATCTC	CTAGGATATG	TGGCTGTTTC	CAGTTTTCCA	GCATCTTCAG
8251	TGACAGAGGC	AATGGGATCC	TTTAAAATGT	TGGGCCAAGA	AAATTGGCCA
8301	CAGATTTGCA	ATCCAAAAGA	AATAGGAGGT	TGCTAAATTG	ATTCCAGCTA
8351	TGAAGGACAT	CGAAAATTTT	TTTTGTTATT	TGACTGTCTA	TCATGGTCTA
8401	TTTGCACTCA	ATTTAATAGG	CAAATGAATT	TCCGACTTTC	CCTTAGCAGC
8451	CTTGAGTAAT	GCTGTCTCGT	ATTTATTATT	TTGCATTAGA	ATGGTTGGAA
8501	AAGTTAAAGG	AAAATTTCCC	TAGCAAGAAT	TGGCTTCTTA	AAAAAATAAG
8551	TCATCTTGGA	CAACCTAACA	TTTAGTAAAG	GCATTTGTCA	TAAATAACCT
8601	CAAGTCCAAT	TTATGGCAAG	GGTTTTAATT	TGTAAGGGCT	TTATTTCTCC
8651	ATACAAAGGG	ATTGGAGAAA	CAAACTAGAA	AGCCAGAAAA	CAGACCACAA
8701	AACTGAGCT	AGTGGTTCCA	ACTGGAGTGT	TCCCTGAGCA	GTGACTTATG
8751	AATACTTGTT	TAGAAGAATC	AACTCAAACA	AATTTAGGAA	AGTCACATCC
8801	TGCCTTTAGA	GCTTCCAGTG	TTTGTTAGCA	TATTAAGTCA	TCTGAAATGA
8851	CCTACAATAT	TGAAATCTCA	GTCTTCTGCT	ATTTTAAATA	TTTATTTCAA
8901	AATGAAATAA	TTTTTGTAAG	AAACATTTTA	ATGCTGTGGG	CTCATAATAT
8951	TCTGTGGATC	TCAGTTTGAG	AAATGAAAGA	TTATAATCGT	ATCTACTCTT
9001	TATCTGTTGG	AAACATCTTT	CCATTTATTT	TTCTGTCTGG	TTTAATGGCA
9051	ACAAATTTTT	ACATGTGAAA	TATTTGTAAAT	GTGATTTATA	TGAAAAAATG
9101	TAATTTTCTT	ATTACACGAT	CAAAAGTGGT	TATGCTCCTC	TGTAAGTTTT
9151	TCCTTACAAG	TTTTTATGTT	GCATAATTTA	TATCTATTTG	GTTTAATGAG
9201	TACAACACAA	GATAGCTCAG	TTTAAATCTG	GGATGTTGGA	TGTTTCTAGT
9251	TAAAGTACAA	GTTGGATTTG	ATGAAAATTC	ATTGCTTCTT	TATGATTTTT

FIGURE 3C

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9301 TAAAACTCAA GAACATGTGA GTTAAAGAGT GTCTTCTGAA CAAATTCTTG
9351 TGAAGTAGTT GCTGATTATT AAGTAACACT CATGCTACCG TAACTTTTTA
9401 TACTATCCAA AGCTATAGAC ATTTTAAATT TTCAACTTGC AACTACCTAG
9451 GTTGAAAAAT TAAATCTGCA AGCCAGTTTC ATTATTGAGA CAATTTGGTT
9501 ATCACTTCAA GCCTACTATC TTCAAAGAAA ATGGGAGTGC AGGCCTTCAT
9551 GGGAGCTGAC TTCTGCTGTA TGGCCTTGCA AATGTCAACT CGATTAGAGT
9601 GACCAGTGTT AGCCCTCAAT TCACAACTC AGGTCCCATG AAATATACAC
9651 GGATTTCTAC TATGCATTAC TATGTGACCA TTCATGGAAG TTTCGTTTGG
9701 AAACACAGAC ATTA AAAAGC CAGTCATGGA ATAACATTCT TGTTAAAAACA
9751 GGACATTGGC AAAAAGGACT AGAAAACCTC TGGCTATAGA TTTTGAATCC
9801 AATAGCCTTG CATAGGCTTT TCTGTTTCCT CCTAAACTAT GTCTTCTGTC
9851 CTTTCTGGAG GCATATTTAT AGTAAAATAA ACAAATTAAT CCTTGTTTTA
9901 CACTTGAGTA ACCTATACCT TTGGTTATTT ACGAGAATTA CTTAAAGCAG
9951 AGTTGGCAAC TTTTCTGTG ATGGGCCTGA TACTAAATAT TTTACACTTT
10001 CCAAGTAATA CAGTCTCTGT CACAACACT CAACTCTGCC ACTGTAGCAT
10051 AAAAGCACAC TTAGACAATG CAGAAACAAA TGAACATGGC TTTGTTCCAA
10101 TAAAACTTTA TTTATGGACA CTGAAATGTG AATTTCAAAA ATATTTTTTG
10151 CATAAGATCA AATATTATTC TTTTGATTTT TTTCCAATCA ATAAAAAGTG
10201 TAAAAATTGG CCGGGCATGG TGGCTCATGC CTGTAATCCC AGCACTTTGG
10251 GAGGCCGAGG TGGGCAGATC ACCTGAGGTC ACGAGTTCGA GACCAGCCTG
10301 ACCAACATGG AGAAACCTTG TCTATATTAA AAATACAAAA TTAGCTGGGT
10351 GTGGTGGGGC CTACCTGTAA TCCCAGCTAC TCGGGAGGCT GAGGCAGGAG
10401 AATCGCTTGA ATGCAGGAGG CAGAGGTTGC GGTGAGCCCA GATTGCACCA
10451 TTGCACTCCA GCCGGGGCAA CAAGAGCAAA ACTCCGCTC AAAAAAAAAA
10501 AAAAAAAAAA GTGTAAAAAC CATTCTTAGT TCATGAGCTA TACAAAAATA
10551 GATAGTGAGT TAGATTTGGC CCATGGGGCT TATTTTGCTG ACTCCTGCTC
10601 TAAGCATCTT GCAGACATTT CTTCATATGC CCTAGGAGAT TTCTGATATC
10651 CCCTCATAAT ACCCTGGCCT TACACCAAGA CTACAATCTG TTCTTTGCAG
10701 ATGCTTAATA AATTCATTCT TCCCTGTCAT TCAGTTGATC TGTGTGAGCC
10751 AGTGGAAATA CTTGGGCCAA TAAATCTAGT GTGTTTGAGG GTAAAAATATG
10801 CTATTTTTGT AAGATATATT ATTAAATGGC CACACAACCT AAATTCAATT
10851 AAATGGTTAC AACCTGTAAC GCATTTAAAA TATGACTAGG CAGAATTTGC
10901 TTCCTACTAA AGACATTTAT TCGATTGAGG AGCATCCAAC AGTTGATGTT
10951 GATCCCCCCA TCCTGCCCCA CTGTCTACT TTGCAATTTG TTTGAAAGAA
11001 ATTGTCAATA TATTTCTGAC TTCTGAGCAA ATCCATGAAT CGGGATCCAG
11051 CAACAGGAAA AGAAGCTGTT GCTGCCCAT GCTTGTTTTT GGCACCAGGA
11101 ATGGATAAAT CCCAGACTTC CTGGGGCACG TGTTTTATAA AAGGGAAGTG
11151 CTGACAGTGC AAACAGCTGC CATCAATTGG CCTTGAGAGC TACTTCCCTG
11201 GAGAAGCTCC AATTATATTC TTAAAGGACC CACCAAGCTC TTCAAGTGTT
11251 AGTGGCAACC ATTTGCTGCC AACCATTGGA AATGATGAAG TAATTTTTTT
11301 TTATTAGTGG ATCCTAAGTG ATAGGCTCTA GAACTGATCT TCAACCTTAA
11351 CTAATATCAT GGCATCAGAG GGCTACAGAT TAAATCAGTG GTTCCCAGTC
11401 ACTCTCTGTG GACAAGTAGC AACTACGACA AAGCTTTTCT TAGTCTATGG
11451 TGGAAGAGAA AAATTAGGAC AATGTAATAA GCATCCCAT AACTTATTAA
11501 ACCTATTAAT ATTTAATTTT AAGATTATGT CATTTTTTGT ATGTGTGTAT
11551 GCTTAGTATT TATGGATTGT GGAAATAGAA TTTTTTTTTT ATAGTGAGAA
11601 CCTAGGTAAG TGACTTACCT CTCTGATCCC CCATTTTCTC ATATGTAGAA
11651 GGGGGCTAAT AATAGTATCT GTCTCATAGT TTTTGTGAGA ATAAAAAAT
11701 TGTCCAGGTA AAATGCTTAG CTGGTGACTG GCACACAGTA ATTGCTCAAT
11751 AAATGTTAGC TATTATTGCT ATCATTATAT AATCATCATG GTTTCCAATG
11801 CCTTTACTTG GCAAATAAAA GAACAAAAGT CACCCGATAT TGATCTCCCT
11851 TTTCTTCCCT AGTTTTCTGG GGGGTGGGAG GCAGAGACCG AATTTTCTGA
11901 TCTGTGAAAT CTGAATTTAT CATTGTAATT TTCCATAAGT GCTATGTAGA
11951 GAACTCATTT AAGTTGCTGG GATGAAAAAA AATCAAAAAGT GGCCTATTGT
12001 GCTGGGTGCA GTGGTTCACG CCTGCAATCC CAGCACTTTG GGAGGCTGAG
12051 GGGGGTGGAT CGCCTGAGGT CAGGAGTTCA AGACCAGCCT GGCCAACATG
12101 GTGAAACCTT GACTCTACTA AAAATACAAA AATTAGCCTG GCATGATGGT
12151 GGGCACCTGT AATCCCAGCT ACTCAGGAGG CTGAGGCAGG AGAATCCCTT
12201 GAACCCAGGA GGTGGAGGAT TCAGTGAGCC GAGATCTACT GCACTCCAGC
12251 CTGGGCAACA GAGTAAGCCT CTGTCTCGAA AAAAAAAAAA AAAAAAAAAA
12301 AAAAAAGTGGC CTCATCTTCA TTTCAGTGAA AGATGATAGT ATCTGGACTC
12351 ACAGTGTGGC AGTGCAGACG GAAAGCTGAG AGTTTATTCA ACATTTATTT

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FIGURE 3D

12401	TCAATATAAA	ATAATTAGGT	GTTACTGATG	GCTTGAATGT	GGGGTAAGAT
12451	GGAAAGAACA	AAATCAAGGA	TAAATCCTAG	GTTTTTGCTT	GAGTAGTTAT
12501	GTGGATGACT	GTGACATTTT	ACTAAGATGG	AGATGCGTGG	GAACGGAGGG
12551	GTTTGGGACC	CTGCTCACAT	ACAGTCTAGA	GTTCACTTTT	GGAGGCATAC
12601	AGTGATTATG	GGACAGCTAA	ATGATGGTGC	CAAGTAGGAG	CTGGAGTAGA
12651	GTATCCAGCA	ATGAGTGGAA	ACATCTGGGA	TGGAGACAGA	AAGACACGGG
12701	TATTAATTCT	ACGGGGATGG	CTAAGTCTGC	TCTGAGAGAC	AGTGTGGAGA
12751	CCAAGGAGAA	GAGGAATCCT	AATATTTAGA	AACAAGGCAG	TGGATAGCAA
12801	TCTAGCTATG	GAAAGTGGAA	GGAAAGAGAT	AGTTGATCAT	CCAGTTCAAC
12851	ACTACTCTTG	TTGTAGTTCA	CTTATGTTGA	ATGCTTCTGT	GTGACTAAGT
12901	CGGTGAGAAA	AATCTATGGG	AGTAGGCAAC	ATGGAGGATG	TTGGTATTCA
12951	CAAAAGCAGT	TTAGTGGAGT	GTGGAGGCCT	GAGCCAGACT	AGAATGAGTT
13001	AGGAGTAGAT	GGAAGATAAG	AATGCAGATA	TGGGCCCAGC	GCGGTGGCTC
13051	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	AAGGTGAGCA	GATCACAAGG
13101	TCAGGAGATC	GAGACCATCC	TGGCTAACAC	CGTGAAACCC	CATCTCTACT
13151	AAAAATACAA	AAAATTAGCC	GGGCCTGGTG	GCGGGTGCCT	GTAGTCCCAG
13201	CTACTCGGGA	GGCTGAGGCA	GGAGAATGGC	GTGAACCCGG	GAGGTGGAGC
13251	TGGCAGTGAG	CCGAGATGGT	GCCACTGCAC	TCCAGCCTGG	GCAACAGAGC
13301	AAGACTCCAT	CTCAAAAAAA	AAAAAAAAAAA	AAGAATGCAG	ATATGGCAAG
13351	TATAGACAAG	CTTCAAGAAG	TTTGGTCTAA	AAGGAAGCGG	AGAAAATAAC
13401	AAAGAGATGA	TGCCTAATAT	AATTCAGCTA	AATGTAATAT	AATGGATTTT
13451	TTTAAGATGA	GGTACTAGAG	CATGTAATAT	AAATCTATTA	AATTGGGTGG
13501	CCAGGAACCA	GGACTGGCTC	ATCAGCATGG	ACCAGGCTAG	ACGCACAGGG
13551	CCTTATATCC	AGAAGGACAT	CACCTTTGGG	TTTTAATGCT	CTGCACTTGC
13601	TGTCTCCAAA	TTCTAACTGT	CTCTTAGGCT	CTCATCAACA	CCCACCTCCA
13651	TATCCAGATA	TTGAGTACCT	CAGGGAGTTC	AATTTGGAAG	CAAATGATGT
13701	GAAAATGTAC	TTTACTATCC	AGTAACATTG	TTGTTAGGGA	GTGTTGGCAG
13751	AGATTGTCGA	ACAACCATAA	TGCATTTTAT	CATTTCGATCA	GTCTACAATT
13801	TAAACATAGC	AGGACTGGAC	AGAGGCACAG	GAAGATTAAG	CCACTGACCT
13851	TAAGTCAGAC	AGTCACATGG	GTAGATCCGG	AATCTTGATC	TAAAATGAAT
13901	ACCATTTTTT	CAGTTATAGC	TATCTTCCCA	GGATGGCCAA	CCAGAATGCA
13951	TATATAAAAT	TTCAAAAAACA	AACATTGGGA	ATTGCTCTTC	AGCAAGAATA
14001	CATCAAAACAC	CCATTATGTG	CCTAACTCTA	AATCTTACTT	TCAGAGAGCT
14051	AAAAACAATT	TCATTTTACA	GTGACATTCA	TCTTCGCTTC	TGCCGTAACT
14101	CACATGCATA	TGCCTTAGAC	CACATTATTA	ATGAAGTATT	GGGGGGTTCC
14151	ATCTAGAGCA	CCTTTTCTTC	CCTGGAGTTA	ATCATCCAGT	TCAGCACCAC
14201	TCTTGAGCTT	TGCTTAGCTT	CTTCTACCCA	TTTGGATTTT	AAGGACAACA
14251	ATTCCAATGG	CCTTTATCCA	TGTATTTAAC	AATTCATTAT	GAGCCAGGTG
14301	AAGTGGATCA	CACCTCTAAT	CCCAACACTT	TGGGAGGCTG	AGGCAGGTGG
14351	ATCGCTGGAG	CCCAGGAGTT	CACAACCAGC	CTGGGCAACA	TGGTGAGACT
14401	CCATCTCTAC	CATTTTTTTT	TTAATTAGTT	GGGTATGGTG	GCAGGAGATC
14451	AAGGCTACGG	TGAGCTGTAA	TTGCACCACT	GCACACTAGC	CTGGGCAACA
14501	GAGCAAGACC	CTGTCTCACC	AAAAACAAAA	ACAATTTATT	TCATCATCAT
14551	TGTCATCATC	ATTGTCAGTG	CTCACTCTTC	AACATTTTTT	AGGTCAACTT
14601	AATTAATATG	ATACCTTGTG	GGATAATTTT	TATTTATTTT	TATAAAATAT
14651	TGAAGTTTTT	GCCACTTTGA	TAACCTCTTC	ATTTTCTGTC	CAGAGTATAA
14701	CATACCAGGG	AAAAGGCTCT	AAAATAAGGC	TTGAGGTATT	AAAAAGATCT
14751	TCTGTTTAAAG	TCTTATGTTT	CTAATCAATA	ACTAGAATTG	GCCTGATTGC
14801	TTTCCTCAGT	GGGTTTTCTG	GTAGTCCTGA	TATGATATCG	AGGCTGTCAT
14851	ATAGTCCTGA	AATATCCTAT	CATTAACATT	TGTGGTGGTA	TCTGATATAA
14901	AGGTAGATGA	ACTTCATTGC	AGCTATTCTT	AGGAAATGCG	TATTTAAATG
14951	CATAGTTAAA	AGCAAGATTT	ACAATTATAG	AAGGAATGCA	AATGAGTTGT
15001	AGAAAGCTCA	TAAAATAAAA	ATCAAGAAGA	AAGAATTACC	CATCATGCCT
15051	CAGCCCAGTG	ATAACCACTG	CTAATATTTT	TGGCTGTTTT	CATTTGCAAC
15101	CCCATCTCCA	TTCTAGCAGC	CCTCATCCCT	CCTACCCACT	ATGTTTTTCA
15151	CTATATTTCT	TGTTTTAAATT	TACTTAATTA	TTTGTTAATT	ATGTTTTTCC
15201	TCTCACTAGA	AAGTGAATC	CATGAGGGCC	AGGGATTTTT	GCTATTTTGT
15251	TCACTTTTGT	ATCCTTAGCA	CCTACTTTGT	TGATTAAGTG	AATGCATTAA
15301	TGATCTATTT	TTAATCTGTG	TATGTGTATA	AAAGACACTT	GATATATCTG
15351	GGATGATATT	CAATATACTT	TTGTATCCTC	ATTTTCACCA	TAGGTAGTTT
15401	ATGTCAATTC	CTTGAAATTT	GTTGATTTTC	TTGAATAATT	TAGCAGTTGT
15451	ACAATTCTAA	AACATAAATA	TAATTTGCTT	AAATATACAT	ACCATTTTAA

FIGURE 3E

15501 ACATATTTAA ATGTGAAAAT ACAGTTGAGT TCTCTTAGAT TGCAATTTTG
15551 TAACTTTTGA TAATCCTTTG ATCCTGAAAA AAATTTTTTG GCATGAGGGA
15601 AGAGATGAAT ATTTCTTTTG GAGTATTTAA ATCATCTCTG CAATAATCCT
15651 TTGATCCTGA AAAAAAATTT GTGGCATGAG GGAAGAGAAG AATATTTCTT
15701 TTGGAGTGT TAAATCATCT CTACAATTAA TAATATCTAA AGCAGTTTGG
15751 TTGGTTTATT TAGGTAGGAT TAATTTTCAG TATGAATATT ATTTAAAAAA
15801 CAAATATAGT CAGTTGAATT GCTGTGGAGG TTTCTGTACG ATTTACTCAA
15851 AGCTGGCTCT TTTTCTGTAC GCACTACCAC GCCCGGCTAA TTTTTCATT
15901 TTTTGGTAG AGATGGGGGT TTCACCATGT TGGCCAGGCT GGTCTTGAAC
15951 TCCTGATCTC AAGTGATCCA CCCACCTCAG CCTCTCAAGG TGCTGGGATT
16001 ACAGGCATAA GCCACCATGC CCAGCCTGCA TTTATCCTTA CATGATGGTG
16051 AAAAATAATG TTTGTACTTC CTTCAGAATA ATTTCAAGAA GGATCCCTGG
16101 AGTCAGCTAA TGATTAGAGT CAGGACTGTG CCTTAGTTGA TGCCCATAT
16151 AGCACTACTG AACATGCCAG AGCTTTTGCT TATCCATACT GGAGGAGGGA
16201 GTGCTTAGAA GGCAAACGTA TATCATTTTA TTTTCATTCA AAATGTAAGT
16251 ATAGCAAAGA ATTTCAATGG CTGGCAGATT CAGTTAAGGA CAAAAATAAT
16301 TCACAGCAGA AACTTTTTCT TGGTCTCCCT CCTCCAAGTG CTAAGCATGG
16351 CACAAGTAGA TATCATGGAA TTCTAGAACC CTCTCTTCAT AGATCTTAAA
16401 AACTACTCTC TTTCCCTGCT TGAGTACTTT CTCAAATCTG TGTCTGTGTG
16451 CAAATTTTCC TTCTAAGGAC ACCAGCCATA CCGGATTCTG GGCCCACTCT
16501 ACTCCATTTT GATACTGTAC CATCTTAACC GAACATGTTA TATCTGCAAC
16551 AACCCCAATC TCAAATAAAT TTCACAGTCT GACATACTAG GGGTTAGGAC
16601 TTCAACCTAT CTTTTTGGGA GACACCTTTG GTTTGACTGC TTCTCAACT
16651 CTTACCAGCT CTATGAGCTT GAGCAGGTTA CATACTCTTT TCAAGTCTTA
16701 GTGCTTCACT TGTATTTTGG GGCTAATAAG GATTATACGA AATAATGCAG
16751 GTTAAATGCC TAGCACTTTG CTTTACATAC TAAGGGTTCC CAAGTGCTTT
16801 ATTATTAGGT TTCTGAATGT TATATATAAA GTTTTCAGTC TGCAAAAGGA
16851 ATAGCACTCG AATATAACAT TTTCTTTTTA ATTCTCAGCA AGGCAACGTA
16901 CTTCTATATA GAAGGGTGCA CCCTTACAGA TAGAATAATG GTGGGCGCAC
16951 ACTTGGACAA GGGAGGAGAA GGGGTTCTTA TCCCCACGC ACGTGGCCCC
17001 TGCTCCTGTG TCGTTCCCTT ATTGGCTAGG GTTAGACCAC ACAGGCTAAC
17051 CTAATTCTGA TTGGCTAATT TAAAGAGAAT GACGGGGTGA GGGCTTTGGC
17101 AGAGTCAGGG CAGAGCAGAT AGCAGGTAAT CGGACTGAGT TAGGGTGGAG
17151 CAGGTGATCT GAATGAGTCA GGGTGGAGCA ATCAAAAAGG TTGCTTTATG
17201 AGGAAGTTAC GTTTAAAAGT AGAAGGCAGG CTGGGCGCGG TGGCTCACGC
17251 CTGTAATCCC AGCACTTTGG GAGGCAGAGG TGGGCGGATC ACGAGGTCAG
17301 GAGATGCAGA CCATCCTGGC TAACACGGTG AAACCCCGTC TCTACTAAAA
17351 ATACAAAAAA ATTAGCTGGG CGTGGTGGCA GGCACCTGTA GTCCAGCTA
17401 CTCAGGAGGC TGAGGCGGGA GAATGGCATG AACCAGGAG GCGGAGCTTG
17451 CAGTGAGGCG AGATCCTGCC ATTGCACGCC AGCCTGGGCG ACAGAGACTC
17501 CACCTCAAAA ACAAACAAA AAAGTAGAAG GCAAAGAATT GAACATACTG
17551 ACATATTAAG TCTTTGAAAA GAAATTTAGA ACTCATATCT AACAAATCCT
17601 CCCCTTGAT TCCCTTACAG CTTTCTTTTC AAACCTTTTTT TTAATATGCC
17651 TTGGCTTAGT AGTTTTGCTT CATTTTCCAA AAGAAGAAGC TTCTCTGGAT
17701 AAGGTGGAGG TTAGTTAAGG GAGGTTTCAG TAAGTGACAT TTTTATGAGC
17751 CTCTGCATCT ACTTACGGAT GCACAGTATG ACACAGCACC CGACAAGAAT
17801 AAGTCCACCT ATTACGGCTG CGAGGGAAGT AAGAATTGAG GCTATTATTC
17851 CTTCTCATT ACCAACTAC TTTTCTAGCC ATCTTATAAA GGGGTCATTT
17901 ACCCCTGAGT TGCTGGCTAA CTTATTGGAT AGAGCAGTCA GACCATGCAG
17951 TGCCTTTCTA ATACTTCCAT TAGGGGCAGT GTTGTTTGGG ATGAAGGTGC
18001 AACATTGAGT TTTAATTATG ATGCAAACTA CCCCTCTTTC TGCTACTATC
18051 ATGTCTAAGG CTATTTTATT TTGCCAAGCC ATCTGGCTAG TAGCCCCTAA
18101 TTGCTCAGCT ATTCCATTAA CAGCATCTCT AGTGTAGTTA ATAAATCACT
18151 GTTGGTTGTA GTAGCTGTAG TTTATCCAAT CTACATTTTT ATTAATTGTC
18201 ACTCACCAAA ATATTGACTT AAATCCTGCG GCTATTTGAT TTTGGGCTTT
18251 AAATTGATCT GGTATTCCTC ATGGGACCCT AATTGTGTCT AAATAGACGT
18301 GAGAGTTGAA AGACCCATAA GGGGCTTCTC TCGCTTTACG ATGTCTTATT
18351 TTTCTTCTCT CTGGTTGATG AAATGCCAGG GTGAAAGGGA TAGCCAATTG
18401 GACTAAAGCA CAAGTGCCAC TCCAGTTATT TGGCAGAGTG TCCAGTAAAG
18451 GTCCACCACA ATACCACCAC ACATCCACAC ATCCGCTCGG GGATGAATAA
18501 GGGCTGACTG ATTGATAAGC TCTTAAAAAT TCTTAAGCTC ACTGCATCCC
18551 TTCAGGTCTC CAAGGAACGC TAAGTTTCTT CCCTGTCATG AGAGACACTA

FIGURE 3F

18601	AGTGAAGTAC	TTTTGGGAGA	CAGAAGCTGG	ATGGCCCTTG	GGGGCTGACC
18651	TGCAGGGTAC	CAGACTTCGG	GATATAGCAG	AGAGAGAGCT	TGGAACGACT
18701	TATTACTCCA	GGCTGTAGAA	TCCCTGGAAA	AGAGCTACCA	TGCAGCCCAT
18751	GCCTGGTTGA	CTGGAGGACC	ACCCTAGTGG	AAAGGGGACA	ATCTGGAATA
18801	CTTGATCCAT	TCTAACCAGG	CATTTGCATC	TTGGTATCCT	GTCTTAGTTG
18851	CCAAAGTTTG	CTTTAAGTCT	TTGTTTTTTT	GTTGTTTTGT	TTTGTTTTTT
18901	GAGACGGAGT	TTCGCTACTT	GTTGCCCAGG	CTGGAGTGCA	ATGGCGCAAT
18951	CTTGGCTCAC	TGCAACCTCT	GCTTCCCAGG	TTCAAGCAAT	TCTCCTGTCT
19001	CAGCCTCCCG	AGTAGCTGGG	ATTACAGGCA	TGCACCACCA	TGCCTGGCTA
19051	AGTTTGTATT	TTTAGTAGAG	ACGGTGGTTT	CTCCATGTTG	GTCAGGCTGG
19101	TCTTGAAGTC	CCAACCTCAG	GTGATCCCCC	TGCCTCGGCC	TCCCAAAGTG
19151	CTGGGATTAC	AGGCGTGAGC	CACCGAGCCT	GACCTGTTTT	AAGTCTTTAG
19201	TTTTTACAAT	AGCTATCTTG	GTCTTGTTGT	TAGATGGAGG	AGGAGCAACT
19251	GTTCCGTTGT	GAGAGGTTTT	GGAAGAAGGC	TTACAGGAAG	GTGCAGGCGG
19301	TGGGGATCAA	AGAAATGCAT	TTTAAATAAT	CTAATAGGGT	TTGTCCCTGA
19351	AACCTCAGCC	CCTATAGCAT	AAAAGTACTG	TAAAGAAGGG	AACTGGCTTA
19401	GAAAAGGGGA	AGAAATTTGA	GAGTTTGAGA	TAATAACCTG	TAGAGAATTA
19451	TAGATAATAA	CCTGTATAGG	TTTAGCTGAC	AGCTGGGGGG	AGGGCTGTCT
19501	CTTTAGTAAA	ATGAGTGTAT	GGTTTTAGTA	AATTACAAAA	ACTGGTTGGG
19551	GCAATCCCTT	CTTGCTATTT	AGTGGTCCAC	AGAACATTGG	ACCAACTACA
19601	GCATAAAAGC	TCTACGTCGG	GGGCGGGGCG	GGGGGTAGGA	CTCTGGGTTG
19651	ACATTGGGGT	CTTTATTGAA	ATTTCCCCGG	ATTAAATGGT	CCCAATTCAC
19701	TAATGCCCCG	TCTGATGACA	GTCAGGAGGC	ACAGAGGTAT	TTTTTCTGAA
19751	ATAGAGAGGT	GTCTTTGACT	TGGCAAATCC	CCACAGGGTA	TAACAAGGCA
19801	AGCATTAAGT	GCAATAGTTT	GAGGCAAAAT	TGACTTGTTT	ATGTTAATAA
19851	CTAGATGGTC	AGCAATAGAG	CCAGTAAAGA	AGAAAGAGTA	ATAGAATAGA
19901	TAAAAGAGAG	TTAAATTTTT	CTTAGCTTTA	GTTTGGCAGG	GCTTTCCCCT
19951	GGGGCTGTGG	CCCACAACCT	TGGAGGGGGC	GGCGCTTTCT	TGACTCGGGT
20001	GTGATGAGTC	CATCCCTTTT	TCACTGTAGA	AACAGCAGTC	TTGGTGGTGA
20051	GCAGCACAAAG	GTAGGGTCCT	TCCCAGGCTG	GCTCGAGTTT	TCCTTCTTTC
20101	CACCCTTTGA	TAAGAACGTG	ATCTTCAGGC	TGGTGTGGT	TTACCGGAAA
20151	TTCTAGGGGT	GGTACCTGTG	CTAAAAGACT	TTTAGTTTTG	AGGGAAAGGA
20201	AAATGGAAGA	TAAACCAAGT	ATATAATTTT	TAAGAAATGG	ACCTTTTGT
20251	TTAAATGTGG	GGACATCAGC	AGTGGACTTT	ATAGTCCTTG	GTGCCTTTTT
20301	ACTGAGAAAT	TTCTTTAGC	ACCTATTTTT	ATTAGATTTT	AGACCAAAGA
20351	AGGCCAAACA	CCATTTTATA	TTTAAACAGT	CTTCTGTAT	GATTCTTATA
20401	CCAGATAAGC	TAAGTTTCAC	CTTTATATTA	GCAAGTTGTT	AAACTTAATT
20451	TTAATAAAAC	TTTGTAGACA	TATTTATCCA	ATTTTAAATG	TCTGACCATA
20501	ATGTATGATT	CTTATAGACT	CTTTTAAACC	TTTTATAATT	TTTGTTAAAG
20551	AGCAGGTTAG	TGCTTTAAGA	AATACCTGTT	GTGCTTTTAT	TTTAATGTCC
20601	AGTTACAGAT	AAAACCTGTAT	GATACCCCTT	AAACTTTAGC	CAATATGTTT
20651	ACACACAGAA	TTTCCTTTAT	AATTAACATT	TCAAAACTTG	CTTAAACCTT
20701	TAAAACAAAA	TATTTGTTTA	TTTTTAAACT	TTTAATGTAG	GTAAAAATCC
20751	ACATTCTTAT	GGCTCCTTAT	AATCCTTTTA	CCAAAGGCAT	ATTTTACTTT
20801	CCTTATACAC	CTTGACATA	AACTGTTTCT	TCAATAGCTT	TACATTGAGG
20851	AGGCTTAATT	ACTTTTAAAT	TATACAACAT	TTCTTACATA	AATTCCCTTT
20901	TAAAACTTTT	TTTTCTTCA	CAACTTTCAC	AGACAATTCT	TTGACATGCC
20951	TCAACTTTCT	GACTTGTTGT	AAACATCCCT	TTCTTTAAAC	AACTAGTTAA
21001	TTTATTTTAG	GACAAGAAAT	TACTATATAA	CATTCTTTTT	ACATAAATTC
21051	TCCCTCTCCT	TTTTTTTTTT	AAGATAATCA	TTCTTCTCCA	AAGCCAACCT
21101	CCTTTATGTC	TGTGGACAAG	ACTGTCTAAG	GCCACAAGAT	TTGAAGTTAG
21151	GATAATACAT	GTTACACTGT	TAACTTTTAG	CTAAATTTAC	TTTTGTTGAA
21201	AACCTCTAAG	TTTGGGATTT	CAATTATTCT	TTGCTATTAA	TAAGACCTTG
21251	TTTAGTCAAA	ATTAACCTAG	AATTGGTATA	GATGGCTTTT	TTTTATTATT
21301	ATTATTATTC	TGTAAGTACT	TTAAGGCTTG	GCTGAGTGCA	AACAGCTCTC
21351	ACGTTTGAAC	AGCACCAATT	ATTAGGCAGT	TTTCCTAAT	CTGCTTCTAC
21401	AAGTGTTTCC	TTATCACTTC	CTGAATACTC	ATTGTGTCTT	TTTCCCTCAA
21451	TCACCCGGGA	GGAACCTGTC	CTGAAGGGAT	TTAGATCCCC	TGTTAGGCAA
21501	ACCTGCTGGG	TTAAGGGGAA	TTTTCACTGG	TTAATGTATA	ATCATCTTTT
21551	TCTAACAGTA	ATAGCCCCAT	ACTTTAAGAT	TTTTGAGTTA	GTAAGCTACA
21601	TTTTCACTTT	TTATATATTT	TTTGACTTAG	GGTAGTTCTG	AACTGGTGAG
21651	GTGTGCTCAC	AATGAGGTTT	CCTCTAAAAG	TTACTTTTCT	ACTTCCTTCT

FIGURE 3G

21701 GTTAGCAAAG CAGTTGCGGC TACAGATTGA ATGTATTCAG GCCATCCGCG
21751 GGTACTGCGG TTAAGGATTT TTGATAGGAA GGCTACTGGT TGTCACTGGC
21801 CTCAGTGCTT TCAGGCTATG CCCTTGTTTA TACTTACAAC AAGGTGGTAC
21851 TGGAGTGTTA TAGGGTCACC GAGAAGACCT TCGATTATCA GTTATAGGTT
21901 TTAAATTTAC CCTGGCTTTT TTTTTTTTAT TATTATACTT TAAGTCCTAG
21951 GGTACATGTG CACAACGTGC AGGTTTGTTA CATATTTATA CATGTGCCAC
22001 GTTGGTGTGC TGCACCTATT AACTAAGGAA TAGGGTACAC TGTTTTTTCT
22051 TTAATACTTC TATCTCTTTC TTTCCCTCTC TGACTTTCTG TCTCTTCTT
22101 TCTGACTCCC TCTTTGTAGC TCTGCCTCTC TTTCTCTCTC TCTGCCTCTC
22151 TCCTCTCTGT CTCTCTCTTC TCTGTCTCTG TCCTGTTTCT CTCTCTCTCT
22201 TGTTTCTCTC TCCTCTGTCT CTCTCCTCTC TCCCTCTCTT CTGTCTCTCT
22251 CTCCTGTCTC TCTCTTCTCT TCTCCTCTCT CTCTCTCCCC TCTTGTCTCT
22301 CACTCCTGGC TGTCTCTCTC TCTCTCCTCT CTGTCTCTCT CTCTCCTCTC
22351 TGTGTCTCTT TGTCTCTCTC CTCTTCTCTC CTCTCTGTCT TCTTTGTCTT
22401 CTCTCTTCTT CTCTCCTGTC TCTCCTCTCT CTCTCTCCCC TCTCTCCTGT
22451 CTCTCGCTCT CCTCTGTCTC TGGCTCTGTC TCCTCTCTGG CCCTCTCTCT
22501 TCTTCTCTCT GCTCTCTCTC CTGGCTCTCT CCTCTCTGAC TCTCTCTCTC
22551 TCTCCTCTCT CTCTCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNAAA
23351 AAAGGTTGCT TTACGAGGAA GTTAAATTTA AAAGTAGAAG GCAAAGAATT
23401 GAACATACTG ACATATTAAT TCTTTGAAAA GAAATTTATA ACTGATATCT
23451 AACACTGAAG GAGGCTTATG CTTAGGGTTT TATGTTAGGA GTTTGGTTTA
23501 GAGCATAGCA TCTTTTATTT AGAAGAAATC TAATTCTTAA TATGGAATTC
23551 ACAAGTAGGA TTATGAGGAA CCCTGAAAAA TATATACAAA GTTTATTTTG
23601 TGTATTTGAA TTATTTTTC TCTTTGAAAA AGGCATGTAT TCACCAAAGG
23651 AGTCCATGCT ATCCCCCCA AGCTAAGACT GCTTCTGCTC ATCCTCAGCG
23701 ATTCAAGTGT GCCTTAGGAT ACATTTATAG GGGACCCTCA ATTTTAAAAA
23751 CTTAGCACTG AATCAGAGAG AAAACTTGAG AGGCATTTGC GAGGTTAAAT
23801 GAGAGTGACC GATGCTGTAC AAGAGTAGGT CTCGAAATGT GGTACTTTTC
23851 TTGGGTTATC TCGTCTTATT CTCATCACA AATGGTGAAGA AATGGTCAGC
23901 CACATTAAAG AGCAGATACT GAGATTACGC AAGTGAGAAA ACCTGTCCTG
23951 GTTCACACAG CCAGGAAGAG GCAGAGGCAG AATCCTCACC CCACTTCTGT
24001 TTGCCTCCA AGCTCAAGGA GAGTGAGCTT TACCCTTCAT ATTTACTCAT
24051 CCTCTTACTA ATTTGACTCT TAAGATAATC CTGAGATTTA AACCAGAAAA
24101 CTATTATGAT CCCCTTATTT GAATGAGAAT ATATGTCTAA AAATGATTTT
24151 TAAAAACACT ATTTAAAGGTC ACAAAGCCAG TGAATGATAA AGGGATTGGT
24201 ACCTCTGGCT CCTATAGTTA GTTCATCCTT CAAAGAACAA AAATAGCCCC
24251 CATTTATTGA GTGCCCTACT AACTCTAGAT ATGTTTTTAA TATATGCTAT
24301 CTCATTTAAT ACCTACCACA TTCCTGTAAG GTAGGTATCA TTCATTATAC
24351 CTATTTTACA GATCAGGAAA AAACAAAACA AAACAAAAAA AAACAAGACT
24401 TTCTAGGGAA AGATGCTGAA TAGAACACAT TCTTCTACAT CCATTCTTTT
24451 CTGAAGATCT TCCTAATATG ACAGGTAGGG ATTTGTCTTA AGATTTAAAC
24501 CCACAAGGAT TGAAGAGACA GGCAGAAGAG CTTCACTATC AACGTTGCAG
24551 AAACCTGGAAA GGAGACAGAG AACTAGAAGC AACATAACTG AGTCCTAAGC
24601 TTCTAGAAGG GGAAGGTGAG AAATAACCAG ACCCATGCCG TAGAACCTCT
24651 CAAAGACTCG GGAATTGACA CTGTCTGTGT CCTCTAGAGC TAGAGGTGAA
24701 GGGGAAGAGC TAAAGTAAAT GACATTGTTT GGATATCTAT TAAAAAATA
24751 GTCATGTCCC TTCTACCAAC TTGGAAAAAG ACAAAAAAAA ATTCTCCACT

FIGURE 3H

24801 CCATACTATG GTTTATCCTC TGAAGAAGAA GTTTTCTTAG TGGGGAAGTT
24851 GAGTGCAGAA GATGCCTTGC TGA AATGGA GGGATCGGGT AGATAAATGC
24901 ATACTGGATA CTGGGGCACC CAGCCTCCTC TTCCCACTTG GCTCTGATAA
24951 TACTGGCAGC CAAGGACTCA CCCTCCAGTA AAGAGAACGA CAGAATATTT
25001 TCTGGAGATT TTGACCAATC CAAGAAGGAA GATTTAAAAAT TATCAACATT
25051 GGAGATTTTC TAATTCAACA TCCAGGCCAC AGCTAGAAGC AACACTATAG
25101 AAGTTTATTG CTGGCAAGAG CCACATACTC AGAATGTCCA AACAGGGGTT
25151 TAGGTCTCCA CACTTAAATA TGAGCAGACA ACCAAGGATT CTCAGGCTTT
25201 TGGGGAAGCC CTCTAATATG ACTGATAGAG ACTAAAACAA ATGAACAGGG
25251 AAAAAGTTAG CAAAAAGTAT AAGAAAGGTA AGAGAAAGCT ATGAAAACCA
25301 AAAAACAAAT AACCAGACAA AAAACAAACA AACAAAAATAG ATACCAAGAA
25351 AATAGCTTTT GGAGAGCAAA AATTTGCTTT GGGAAAAAAA TTACAGCATG
25401 AATGGAAAAA TCCAAAGAAG ATTTAGAAGA TATATTTAAA GAAAAATTTCC
25451 AGAATAATGA GCAAACAAAG ATATAAAATA AGGGTAAATA TAAGAACATT
25501 TAACGGCCAG GTGAGGAGTT CTAGTTTCTA AATAATAGGT ATAGAAAAGAG
25551 AGAAAGAGAA AATGGAAGGG GCAATAATTA TTACATATTT TAAGAAAAAG
25601 AGTCCAGAAAT TGAAGAACAT AAGTTTTTCTA ATTAAGGAG CTTATTTAAAT
25651 GCCCAGCACA ATGAATAAAT CATAACATAT CAAAACATTC AACACAAGTA
25701 TATAAGACTA GAAGTTTCTA GAGAAGAAAA CTGTTACATC AAAAGGATCA
25751 GGCATCAAAA TAGCTCTAGA CTTCTCAACA GCAATGTGTG AAAAGGTAGA
25801 AGATAAGAGC AAAGCCTTCA AATTCTGAAG GAAACAATTT CCAACCTAGA
25851 ATTCAATAGT CAGCCAAACT ATTAGTCAAG TGTGAATACA ATAAAAATAT
25901 TTTTCATGGA TATATAATAT TTCAAAAAAT ATATCTCCCA TGCAATCCTT
25951 CTTACAAAGC TGTTTTAAAA TGTGCTTCAG TAAAAACAAGA AAGAAGGGGG
26001 CACTGCATGC AAGAGCCAGG AATCTATCCT TAAAGAGGCA TGAAGGAAAT
26051 CCCCAGGGTG ATGGTGAAGG GAATACCAGG AAGACAGCTG TGCAGGAATA
26101 GAGATAAATA GTCCAGACTG GATTATGTCT GAGGAGAGAC ATTTTCAGGA
26151 AGATGACAAT GTGCCTGATG CACCTGAGCA TTATGAAAGG GAACTAGACA
26201 ACTGGAGAAG GGTTTGGGAT TGGATTGGGA AGGAGATGTA GAAAAGTCAA
26251 CATGTGTAAA CAAGACTGTT ACTAATTCCA GGGAAAGCCA AAAATTGTGC
26301 AAGAAAAGAA AACTAATCAT AGTTTACTAC AACTCAATTG AGCCTACCAT
26351 TTCTGTATTC ATAATAATGG AAATACCGAA TATTGATCTA ATTA AAAATTA
26401 TTATGCCAGA TGTATTAGAA AGATGGAGGC ATGTTGGGAT AAAACCAAAG
26451 GAGCAAGAAC ATGAGCTAAA TCCCATCTA CCACCTTGAA TATTCAATAA
26501 CTAATGCCTA AAATGAAAAA GAAAGGACAA TAAAAATTATA CTCTTTAGGG
26551 ACATGGTGGG GATCACCCAA TGCATATCTA AAGAGAGGTA AAAGTGGTTG
26601 CTCCTTGGCT GGGAGAGATT AGAAGGGGGG TAAGTAGATC ATAGGACTGC
26651 CATTTTCTCC TTTTTAAAAA ATAACAAATC TTTTAGAACT ATTTGATTAT
26701 TTAAGCTATA TAAAGATATA GATAGTTATG GACACAAAAC TTGAAAAAAT
26751 GAAAACATTA AAAAGACTGA AATAGAGCAA AATATGAATC ATGGTTATCT
26801 TTAGATGGTT TTGTTTTTCT TCTTTATACT TTGCTGTATT TTTTATACTG
26851 ATAGCATATT CGTTTTATAT ATATGTGTGT ATATATATAT TTTACAATTA
26901 TATATACAAT TTTATATATT TTATATATAT ATTTATATAT ATACTCTTCA
26951 TTGTAAACAA GAAATTGAAG TTCAGAAAAG TCAGATAAAT TTCCTAATTT
27001 CAAATATCTT GTAAATGGTA GAGCTAGGAT TCCACTGCAA GTCTGTCTGA
27051 TGTGAAGCAT TTTTATCTTT CATCAAAGCA TTCAATCTTC GTTAAAAATCC
27101 GAGAGGCCAA ATTGTCATGC CTCACCATTCT TCTCCCATCT CTGAAGGTCC
27151 ATAGTGCCTC TTTTGTACAC CATACAAAAT AACACTTGAT TGGTTTCATT
27201 ATTTGTTTAC TTATTTGTCT ATCTATACAT TTATTCATAT TCATCTAATT
27251 TTAGAAAGAT GAGAGAATGG ATTCCAAAGG TACATAGATT ATAGCAAAAAT
27301 AAAATAAAGT TACAAAAATG AAACAAGGGA CATTTGATTA TTCAGGTTTT
27351 GTTTTGTGAG ACTGCTAAAT GAGGCACACT CAGTTTTTCT TCTCTGCTTG
27401 GGGAGGGTAA GTGTCCTGGG ACTGAGTCCC AAGCTTCTTA TGTTTTTCCA
27451 TCAGTGCCTA GGAAAGTCCT GGGTACACAG ATACTCAATG AATGTTTGT
27501 GGTGTGACTT GCCAGCAAAG CCGTGGCTCC TAGGGAAGTG ACTTCAGCTT
27551 CTTTATCTTC TTGGTGTGAC TATCTTAAAA GGGAGTAAAT GAGCCTTTCT
27601 TTGTAAGTGA CTGTATTTGA GAATGCAGCA TGACAGACAA AACATTATC
27651 TCATTTCATGG AGAATTGTAA AATCCAGCAG AAGAGCTCTC TTTTAAACCA
27701 GTGCTTACAA TTTGTCCTTT TTCACCCTTC CTTGGCAAAT CACGCAATAT
27751 TCCTTCTTAA AAATGGGTAA AGTGCCAGCC GAACTTAGAA GAGGGACTGA
27801 TTCTATCTCT ATTCTGACCA GGTATACGGT AGACTGTAAT TTAATGTCAG
27851 CACCTTTCTG TTGCCATAAT GAGGTATATT TATTTCTGTT CAAAGATCAT

FIGURE 3I

27901	GCAGCCCTGA	CAAAGCAAAT	ACCCTCTGAC	TCCCACTGTT	AATTATCCTT
27951	CAGTTGCTAC	AGGGTTTTCA	TCCATGTCCT	CACCTAGGAG	AGTTGGCGGT
28001	TGTGAAGCAG	ATGGAGTCCA	CAATCTCAGT	GGCAGTTCTT	AATGCTTTGA
28051	GCTCAAAGTG	TGAGTAAGTC	GATGAGTGAG	GCTTTTAAGA	TGTAAATCCA
28101	ATATCTGCAG	AGAAATCTGA	AGCTGTAATA	TTAGAACAAAC	ATTCAAATGA
28151	GGACTTCATT	GACTAGCTCA	TTAAGAAAGTC	CTTTGATAAT	AGCATGTTGG
28201	TAAGACTTTT	CTTAGAAGGT	ACATATTATA	AATGATGATG	TGCTAAGAAA
28251	TCAACATAAA	GGAAAATAGA	AAAATTTTCC	CCAAATCCAT	CCTTTTCTG
28301	TAGAACTTTA	ATGATGATAC	CTCATTCCCT	TGTAACCTAA	TTTTAAAAAG
28351	TTAATTATGC	ACCTACTATG	ATACGTCCAA	AATGTTTTTA	GGTGATGTGG
28401	ATATAGCGAA	GAACAAGACA	CACCCAGTGT	CTTCCTTCAT	GGAGTCTATA
28451	TTCTTGGCAC	TGTTGGTCCT	GTGTGAAGTC	CTAACATTAT	TTTGCTTAAT
28501	GTTTTGGCAA	GAGAGGCAAC	ATTGGCTGGG	CGTGATGGCT	CATACCTGTA
28551	ATCCAGCAC	TTTGGGAGGC	TGAGGTGGAT	GGATCACCTG	AGGTAGGGAG
28601	TTCAAGACCA	GCCTGATAAC	ATAGAGAAAC	CCTGCCTCTC	CTAAAAATAC
28651	AAAATTAGCC	AGGCATGGTG	GTGCGTGTCT	GTAATCCCAG	CTACTCTGGA
28701	GGCTGAGGCA	GGAGAATCAC	TTAAACCTGG	GAGGCAGAGG	TTGTGGTGAG
28751	CCGAGATTGT	GCCATTGCAC	TTGTACTCCA	GCCTGGGCAA	CAAGATTGAA
28801	ACTCCATCTC	AAAAAAAAAA	AACCAACAGG	CAACATTCTG	GGCTGAAACA
28851	AAGGTAATTC	ATCTGGTAAC	AATAGCAATA	ACATAAATAG	CAGTAATAAT
28901	TATACATTAT	TGAGTTCTTA	TTCTCTGCCA	AAAATGGTTG	ATAAGCACCT
28951	TTGATATGGC	TTATTTTACC	TAGTCCTCAT	TATAACCTTA	GAAGGTATAT
29001	TGTATCTGGT	CAAAATTGAA	AGAAGAAATT	GAAACTCACA	GAGGGTAAAT
29051	AATTAAAGTT	CATAGCTAGT	AAGTAGTACA	GACAAACCCA	AAAGCAGAGT
29101	TTCATGCTCA	TAGTACCAT	AATGTATTCA	GAAACTTTTA	GGACTCATCA
29151	CAATATTAATA	ATCATGGAAC	TTGGAGCCAC	AAAAAGTCAG	ATTTAAGTCC
29201	AAACCCTGAC	CCTGGGTAAT	TTAACTTTTC	TGGGTTTATG	TAACATATCT
29251	ATAAAGTAGC	AATAATAATA	TTACCACCTC	ATGCTGTTTT	GGTAAAAAGT
29301	AAATAAGATA	ATGTATATTA	AGGTATTTGG	ATAGTGCCTA	TAGATGTATA
29351	TATGCTACTT	AATAGACAGT	AATGTAATTA	TTAACTATGA	CCTAAGATGT
29401	GGCACAGTGC	AGGTAGCAGA	AGTTCTATCA	TTAATCATTT	ACAGATACTT
29451	ATTAAATTGC	TTCAAACCCA	TAAGGATAGA	GGCAAGATGG	AGGGGGAAGT
29501	CTAAGAAATT	GATTGAGTCA	ACATTTATAT	AAATACTTAT	CTACTGAGAG
29551	CTTCTTCACC	TCAGGGTTTG	GGTCACTTTA	AATGCATCCT	CCCTGACCTC
29601	CTCTGCCTGG	CTACCTTTGG	AACTCCAACC	CATTCTGCAA	GACCCAGTTA
29651	AAATGCTGCC	CATTCTTGAA	GCTTTCTTAT	TTTCTAAAGT	AGGAAGAGAT
29701	TTCTCCCACC	TTAGAACTCC	TATAAACATC	TGCAGACTAG	TTCTAGGCAG
29751	CCTTTAACAA	AATCCTCATG	GGATCTTTGA	AAATACAGAT	TCCCAGGTCC
29801	AGCCTCCAGA	GAATCTGATT	CAGATAAGGC	CAATGAATCT	GAATTTAAAA
29851	ACATGTATTT	GTGTGATTTT	GATGGGTGGA	CACACTTGAG	AATCACGTCA
29901	GGACCATTTA	TGTGGCTCTC	AATTACATAT	ACACTACTTT	ATATTGCAGT
29951	TGTTTATTTA	TGTTATATTG	CAGTTATTTA	TTTATGTTTC	ATCTCTTTTC
30001	CTGAGAAATT	ACCTTCCTGA	TAATCCAATG	CAGAGATAAA	TTAAGAAAAAT
30051	CTGTAGGAAA	GAATAGATCA	TCAAGTCCCT	TGCAACATTG	TTCTGAGGTT
30101	GTAATAATCT	CCTCTAGGAT	GCTTTGCTGG	ATTTCCCTGG	ACTAGGTTGT
30151	CTTTTCCTGC	TACTTTCTCC	CATTACAGGT	CTCCCTACGG	CAGCACTGCT
30201	TATATCACTT	GGAACCTGAA	TCTATTTTGG	TAAAAAATAA	GTTAAAAATT
30251	AAATTATCAG	AAGGATATTG	GGGATGCCTG	CAGAGTAATC	AAAATAGGAT
30301	CTATATTGTT	ATAGAGCCAG	GCACATTAAT	GCCATCAGCT	TTAGCCCTTT
30351	ATGTTGTGAT	TTTACTTTAT	TCCAAATGTC	AGCTTTATCC	TGTTGGATGT
30401	GCTGATCTTT	TTTCTCTACA	TTCAGCCAGT	TCCATTCTCA	TGTTCTGGAA
30451	GCTTGTGACA	GAGGGGGAAT	ATGCATTTCA	AGATCAGAAG	ATCCAGAGTG
30501	AAAATGATTG	GAATGGCCTG	AGTCACAGTT	CCAATCCTAG	AACAAGGCAT
30551	CTTGCTAGGG	ATGTGAGAGA	TGATAAGTGA	CAGATACAGT	GACAGCAAGT
30601	GGTTGATGGG	ATCTGAGTTG	TGAGAGAGGG	TCTGTGAAAA	ATGAAAGACC
30651	TGCATAAGAA	GAGGAGAAGC	AGAAATATGA	ACATTGTTGT	GAGTCAGGTC
30701	TTTACCCAAC	TCTGTGCTGC	TTATTCTACT	TTTTTGTGCA	AGATTGATTA
30751	TGTGTGTTTA	ATAGAATGCA	GTAAGAACA	GTGTGGAGG	GCAGCTGTGG
30801	AGTCCACTTG	AGTGGGACTC	TACCACTCTG	CCACTTACCT	ACTTTGTGGC
30851	CTTGAGAAAG	GTACTTAATT	TCCCTGGGTT	GCAGTTTGT	CACCTAAAAA
30901	CGTGGAATA	ATAGTAATAC	TGTTTCAGAG	TTGGCGCAA	ATTAGGATAA
30951	TATATGTAAC	ATATTTAGAA	TAATGATGGG	TATTCCTTAT	GTAAATGTTA

FIGURE 3J

31001	GATGTTAGCT	ACTGTGAATT	TTTCTGTTGT	TCCACTAGAC	TGTAGGACCC
31051	CTGAAGGCAG	GCAACCTTGG	GCTTCTTTCT	CCCAGCACCT	AGCACAATGG
31101	CTGTTACTTA	GTAAGCAGTC	AGTAATGGTG	TGTTGTTGTC	AGTGAACACA
31151	GACTGAGTTC	AGTGAGCAAT	GTCTTGGAAG	GCCTCTACTG	CACCTAGGAC
31201	TTTCAGCTAT	ACTGAGACAG	AAAAATGAAA	TCCTCTCTGG	ACTGGAAAGC
31251	AGAAGCCAGA	CATGTAGGCA	ACCAAAGTGT	AACTGTTTCC	ATGTCGAATT
31301	GACTTTGCCT	TTAGCGAATC	ATAGCACTGA	GGAGTGTAC	GTTTAAGCAG
31351	CAAAATTTGTA	TAGCAAATTA	ACATGCCAAA	AAAGGCATGC	AAGACTTTTA
31401	CTTGATTTTT	TTCCCCTCCT	CTCTGGGGAA	TTTATCTTAT	TTGGGTCTTA
31451	TCTTGGAATT	TATCTTATCT	TGAACCTATT	CAGACTGCAT	TGGTTTAATT
31501	TGCTATCAAC	TGGGGCTATA	TAGTGCACCT	GAATTTAATG	TGTTGTATAT
31551	GTGAAATATT	TACCAATAAT	CCACATAACC	AAGATATGGA	GGACCTACTT
31601	TAAGAGGAGA	TTCTTGCAAA	GCACCTTAAA	AGCATACACT	CAATAATCAC
31651	AATGGCATGA	CTGCATACAG	GGAGATAATC	AGTTGTTTTA	ACTTTTAATT
31701	TAAGCAGTAG	CAGAATGACT	TTTTGGGAAC	TTAGGAATTT	GGAAACCTTT
31751	TTATTCTATG	TATTGAATAT	CAACTATGTA	ATTTAGTCTA	AGGTTATATG
31801	CTAGAAACAT	TTCAAAAACG	AAAGCAGCAG	CAATGACATC	AAAAATGCAT
31851	GTCAAAAGCA	AATGGTTTTA	AATAGAAAAT	CATCATTTTA	ACAATCTTGA
31901	AGTTTAAAAG	ATCCTATAAA	AATCACAAC	CCAGAAGGAC	AAACAAGAAA
31951	AGATTGATAC	ATTTAACTAC	ATAAAATTTA	AAACTACATT	ACTGAAAAAA
32001	AATCTGAGAC	AGGGTCTCTG	TCACCCAGGC	TGGGGTGCAG	TGGTGCGATC
32051	ACAGCTTACT	GCAGCCTTGA	CTTCCCAGGC	TTAAGGGCTC	ATGTAATCCT
32101	CCCATCTTAG	CCTCCCAAGT	AGATGGGACC	ACAGGCATGC	ATCACCACAC
32151	TCGACTAATG	TTTAATTTTT	TTGTTGTTGA	GACAGTCTCC	CTATGTTGCT
32201	CAGGCTGGTC	TCTAACTCCT	GGGCTCAAGT	GATTCTCCTG	CCTCAGCCTC
32251	TCAAAGTGCT	AGAATTACAG	GTATGAACCA	CTGAGCCTGG	CTTTAAAAGT
32301	TTTTAAAATC	AAAAGCCAAA	TGGACAACCT	AGAAAAAATA	CTCCTGAGAT
32351	ATGTTAAACA	GAGTTAATTT	ACTTGCCATT	TTTAAGTGTG	CTTACATATC
32401	AAAAAATCTA	ATAACTCATT	AAAGATATGT	AAAATATATA	CAAAGGCAGT
32451	TTGCTGAAAA	AATACACATA	TAAATATATG	CAGCTTCACT	CAGCATTCAA
32501	GAAATAAAGT	AAATCAATAA	TTCAATCTTT	TTCACTTGTC	AGATGAAGAA
32551	CAGTTAATGT	AGTAGTGTTG	GCAAGGTGGT	GGACAAAAAG	TTATTTTTAT
32601	ATGTTTTTGA	TATCAAGAAG	ATTTGATGCA	ACATCTTTGA	AGAGCCAGTT
32651	AATAATATCT	GTAAAATTAG	AAAATTAACA	TATTCTTTGC	CCAGCATTTC
32701	TACTTTTATC	AACTTTGCTT	GTAAACAGAC	ACAGAAGCCC	ATCAAGAATG
32751	CTCAAGGTAG	TTTTGGTAAT	CATAGATAAT	TTTTTTTTTT	TTTTGACGGT
32801	GTCTTGCTCT	GTCAACCCAGG	CTGGAGTGCA	ATGGCACAAT	CTTGGCTCAC
32851	TGCAATGTCC	GCCTCCTGGG	TTCAAGGGTG	TTGCAGGAAG	TCAGGGACCC
32901	CAAACGGAGG	GACTGGCTAA	AACCATGGCA	GAAGAACATG	GACTGTGAAG
32951	ATTTTCATGGA	CATTTATTAG	ATCCCCCAAA	TTAATACTTT	TATAATTTCT
33001	TATGCCTGTC	TTTACTGCAA	TCTCTGANNN	NNNNNNNNNN	NNNNNNNNNN
33051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33801	AAATCCCTAA	TAAAACTTG	CTGGTTTAC	AGCTCGGGGG	CATCACGGAA
33851	CCTACCGACA	TGTGATGTCT	CCCCCAGATG	TCCAGCCTTA	AAATTTCTCT
33901	CTTTTGTAAT	CTGTCCCTTT	ATTTTTCAAC	GCAGCTGATG	CTTAGGGAAA
33951	ATAGAAAAGA	ACCTACGTGA	CTATCAGGGG	CAGGTTCCCC	GACACAAGGG
34001	ATTTTCCTCC	CTCAGCCTCC	TGAGTAGCTG	GGATTATAGG	CACACACCAC
34051	CACACCCGGC	TAATTTTGTG	ATTTTGTAGT	GAGACTGGGT	TTCACCATGT

FIGURE 3K

34101	TGGCCAGGGT	GGTCTCAAAC	TCCTGACCTC	TGGTCATCCA	CCCGCCTCAG
34151	CCTCCCAAAG	TGCTGGGATT	ACAGGCGTTA	GCCACTGCAC	TCAGCAATCA
34201	CAGATAATTA	AACCATCTTT	CAAAATCCAT	CAATAAGTTA	AATATTTTAT
34251	GGTACATTTA	CACAATAAAA	TACAAATTAG	CTACTTAAAA	ATAATGAGAT
34301	CTATATGTGA	TGGTATGAAT	GGACAGAGGC	AATGTGTTAT	ACAGAAAGGG
34351	TTTAACAATG	TATGCTCCCA	TTGGAATGAT	AGTATGTTGC	TATTGCTGTT
34401	AGGAAGGAGT	ACATATATGC	AGAGAGAATC	TCTTAAAGGG	TACACAAGGA
34451	TTTGTTAATA	ATGGTTGCTT	CATGGAAGCT	GAAGTCAAAA	CTTGGAAGAG
34501	GAAGATAGCT	TAGTTTTTAC	TGAATAATTG	TTGTACTTAA	AAAAATTTGT
34551	AATTTTTAGT	TTTCAGTGGA	CCAGATATTT	TGCTTCTGGT	TTATAATGTC
34601	TCATCTTCAA	AGTCAGCTGA	GTTAGGTTTA	ATTAGCTCCA	TTTTACAGAC
34651	AGAGACATTG	TTATTTGAAA	GATTGAGTAA	CTAGTCTAAG	GTTACACAGC
34701	TGGTGTCTCT	GTTGCCTGTT	CAGTAGAAAG	GTTTACATAA	ACAGCAAGGT
34751	GTGCTGTTCT	CAATAGACTC	ACTTATGTTT	ATGATTTTGGT	ACTTGCTCAA
34801	GCTGGAATCA	ATTTTTAGAA	AAAATAAAAT	CTTTTGCAAA	GATTTTTACC
34851	TCAAAAATAG	AAAAAAGGGG	CATTCTGCCC	TTACCTTCTA	CAAGGGTCTT
34901	CTCTGAAAT	CCAAGCATCA	GGGTGTTATA	ACAGACTCTA	AAAAGGGTTT
34951	CCTTTTTTCT	TTCTTTTAAC	ATTGCTTATT	GCACAGCATA	TTGAGACAGA
35001	GAAGATGGTA	AGTGAAATAA	AACAAAGGAA	ATAAAAAGTA	TCATCACTGG
35051	GTTTCAGAAT	CAGCATGGTT	TATGCTAAGG	GAAAGACTTG	GAAACCTTGA
35101	TTCAACATAT	AATTCTAAAA	AGAGACAGGA	AGAAATCCCA	CCTTGTTTCC
35151	TCTGATTCTA	CCTTTGGGAT	GGGTAGGTAT	GTTATACAAT	AAGAATAACA
35201	TTGAGATGAC	TGCTATAAAA	ATAGTGTTTA	AGAGCCTGGG	TCCAGAATGA
35251	GAAAGGTGGA	TATTGAATTT	ACCTGAGTGC	AACTAGGCAG	ACTCAAGTGA
35301	GTTGATTTTA	CCCACTCCTC	CACTCAAATA	CTGGGTATGG	CTTTGCAAAA
35351	ACATTCAACC	AGTTATCCAC	ATAGTTGGTC	TTAACTTTCC	ATGTGACTAT
35401	AATGAATATA	AACTTGCTAA	TGAGCAGAGT	GTGATTTTAG	TGTTTAAACT
35451	ATTTTTTCCC	GAATAATAGT	TCCTAGATGC	AGTTAATGAG	CCTTATTGGG
35501	TACCCACACA	AAGGAGATAG	AATTGTCTGT	TGGACTTTTT	GAAAAACTTT
35551	CTTGGTTTTA	AAAAAGGTAC	ATTTCTAAAG	GATTTTTATG	TGTAGTTTTG
35601	ACTAAACAAG	TCTTTGCCTT	ACTTTCTGTT	TTTAAATCT	AACCTCAACA
35651	TTAATATGTC	ACTATACTGG	TTATAACCAT	AACAAATTAT	TTCATCTCTC
35701	TGAGCCTGAG	TACCCTCAAC	TGTATACACT	ATAAGGATGT	GAAGATAGAA
35751	AGTGACATAA	AAATGAAACA	TGTACTGACC	ACCCTCATAA	ACAGATCCCT
35801	CATACATATA	GAATGTCTGT	GCCTGGTTGA	TTAGTGAAGG	AATGTGTACT
35851	CACCCAAAAG	AAAAACTCTG	AAATAAGTAC	TTTTAGATAT	TTACTTTTTTC
35901	AATATTCCAA	GTAATTATCA	CAACATTAAG	GTGCATTGAG	CTTTGTGTGT
35951	TAACGTGGTA	TACCTCCAGG	CAACTTTTAG	GATACTGTAC	AGATACAATG
36001	GCTGTGAAGG	CTGGGATGAA	AAGACCTGTG	CGAAGCAGGA	CTGAGGCACT
36051	TAAGGAAGGC	CTCAGAGTTA	CATCTCCTTT	GCCTGTTTTT	TTGCAGGCCA
36101	CATACCCTAG	CCCAGCCCTG	TCAGCATGAG	TGAGAACCAG	GCTCTGCCTT
36151	TGCCCACACT	AAACCACTAC	CTTCAAGGCC	CCACAAAGAC	CCAGTGTCTC
36201	CAGACGGTCT	TTCTGTCTTC	TTAACACTCA	GAGCTCCATG	AACCAGAATG
36251	AAAGTTTTGG	AACATGATCC	AAGTAAAAGA	CTCAAGAAGT	AAACACCACT
36301	AAGGTTAACT	TTGCTTTAGA	GGTTAGAGAA	AACACTGCAA	GGACACCACA
36351	CCAGAGACTA	TGAAAACCCC	AAATGTATTG	AAATGATGCT	GATTCCATTT
36401	ACCTCCATAT	TGCCTGATAA	TACCCAGGTG	CTACCATGGC	AGCTTAAGGT
36451	GGTATTTGCT	GGGAGCTATG	ATACTCTTTA	AGAAGTAATA	GCACTACTAG
36501	TAAAAGCAGT	TAGTTCAGG	CAATATTCTA	TGCACATGAC	CCATTTTCATC
36551	TTCTTATAAA	CCTCATGAAG	AATATATTAT	TTTCATCCTC	ATTTTATAGA
36601	TGCAGAAAGG	GAAGCATAGA	CGTAAATTTT	CAAGATTACA	CAGCTATTTA
36651	TTGTTGGAAC	TGAGATTTGA	ATTCAGGTTG	TCTGTCTTCA	GGGACTGTGC
36701	TCTTAATCTC	AGTGGTCATC	AAACTTTTCT	GTAAAGAGCC	ATCCAGTAAA
36751	TATTGTGGGT	TTATATACAT	TCTCTATTGC	ATATCCATTG	GTTTTCAAAA
36801	ATAATCCTAT	ACAAATTCAA	AAACCATTCT	TAGCTCATAG	ACTACACAAA
36851	AACAGATTGC	AAGTCCAGTT	TGGCATTTAC	TGTTCTTATT	GATCAAGGGT
36901	TTAAGAACAT	AGTGAGTACA	CTATTCCACA	TTCCCTTAG	GCAAATCCTG
36951	TATGTTTATA	GTAAGTTTAG	ATTTCTGTTG	ACAAAATAAT	CCACAATTCT
37001	GACTTCATCT	CTCTCTCTCT	CTCTCTTTCT	GATTTTGTTC	GAATTTATGA
37051	GGTTTAGTTG	CATTTTCAAG	TTAGTCTTCC	TGCTAACGAG	TGATTCTTTT
37101	GTTGAACATT	TAAAAAGGGA	CTGTCAGGAT	TGAATAAGAG	AACCTCTTCC
37151	AGTCACTTTT	TTTTTTGAGA	AAGGATCTCA	CCTGTTGCCC	AGGCTGGTGT

FIGURE 3L

37201	GCAGTGGTGC	AATCACAGAT	AACTGCAGCC	TCAACCTCTT	AGGTTCAAGT
37251	TCCCCCTGCC	TCAATTTCTG	AGTAGCTGGG	ACTACAGATG	TGCCACCACCA
37301	TGCCTAGCAA	ATTTTAAATT	TTTTGTAGAG	ATGGGGCCTC	ACTACATTAC
37351	CCAAGCTAGT	CTTGAAGTCC	TGGGCTCAAG	CAATGCTCCT	GCCTCGGCCT
37401	CCCAAAGTGC	TGGGATTACA	GGTGTGAGTG	ACTGCATCCA	GCCTCTTATA
37451	GTCACTTTTA	ATCTATCATT	GGCTTTCCCA	TTAGATTGTA	CTGTTATACA
37501	AGGAAGTGAC	TTCAGACAGT	ATGGCACTAG	ACTAGAGGCT	GTGTTTTTCT
37551	TTAATAAAGG	CATAAATGAG	ATGAATTGCT	CTAAGGCTTT	AGGCTTGTCC
37601	CTTTTCTGAG	AAGTGACCTT	TGGGAGGTCA	CATTTAGTTA	AAGCAGTTTT
37651	GCTAGTATAA	ATTTACCAGG	ATCCTGACAT	GTAATCCTGT	ATCATTTTCA
37701	GTAAGGTAA	AATGGTATAT	GAAAGGAGGT	GGTTCACGAA	ATGGATTAAT
37751	ATCAACATGG	AACTTCATGC	TTTCTAGGTA	CCTGCTGCAT	CCTTGGAGAT
37801	TCAAAATGTC	ATCATGGCAT	TCTAGGCTAG	ACTGGCAGTG	GAGAAATCAC
37851	TGTGAGTTAT	TGGATTTGCT	CAAGATAAAA	TCTTGAATTT	GCAAAATAAT
37901	CCTGGTCAGC	TTTTTTTAAAC	ACTCTTGTGG	TAAATAATAC	ACAACTCAGA
37951	TTCATGTAAT	GGGTGTAAGA	AAATCATTGC	TTTGGTTATT	TCAGTATGAA
38001	ACTCAAGAGA	AACTTACTG	AAGTGTTTTT	AAAATTATTC	TGACCACAAC
38051	CCAAGGTA	ACATAAGCCA	AAAAACATAT	CATGACATAG	TAAATGAAGC
38101	CAGGATTGTA	TATATATGTC	TACTCAAGTA	TATGAAATGG	AAACAACAGT
38151	TTCAGAGGCA	GTACTATGCT	TACTACATTT	GAGGCATTTT	TGGTATTTTC
38201	TATTCTATTT	AATTAATTTT	TTAGTACTTC	TTATTTTAGC	TACATTTATT
38251	TCATAACTA	TTAATGGGTT	TTGACTCACA	GCTCAAAAAC	ACTGCCTTAG
38301	AGAATCCAAA	TGTTCACT	ATCCATATTT	ATAAGAAGTA	ATTGTTCTGG
38351	GGTCTTGTG	TATTCTTATA	GCTTAGTTTG	ATTTATTTGC	TAAGACCTGG
38401	CTAAGTGAGA	ACTGCAAAGA	GTTATGCCTT	CAACTACCTA	AGCCAGGAAT
38451	TTTCTGAGGT	GGCAGGGGAA	CCAGGGTGAG	CAGAAGGACA	TATCATCCCC
38501	ACCCTCATTA	AGCTTATGCT	ATAGTGGATG	AAATAAACTC	AGAAGTCAAG
38551	GAGTTTCAGA	AGAGAAGTCA	TTCCCTTGAG	TAACTATGTT	AAGTACGTAA
38601	ACAGCTTTAG	TAGTGCTTTC	TTAGTACAAG	GTGTTTTCTT	CTGATCTAGG
38651	AGAGTCAGTC	CAATTTTTTT	CTTTTGAGAA	AATGGAGGCT	CAAAGAGTCT
38701	GTCATTTATC	TCCAGTCTCT	TCATTATTTT	GAGTCCAAGT	ACAGGATTAT
38751	TTGTAATATA	CATGCTGCCT	CACATGACTA	AGTGGGTTTT	GTGATAGAAA
38801	GGGAATTTGG	AGTTGAGAAG	AGAAAGTGAT	GATTAAGTCA	CATCATTA
38851	ATGTTTGACT	CTCAGATATC	TTGGAAAGAC	TTTGAAGGCA	CTCTAGCCAA
38901	ACTTTTTCT	TCAGAAGGAG	CTTATCTAAT	TATTCTAGAT	AATAGAGAAA
38951	AACTAGGTCT	TTTAAAGAGA	CAAATTATAT	ACCATTTAGT	GTTCACAAT
39001	ATTTTCTGAA	TAAACTTAA	ATCCCTTATT	TGGAATTTAA	CTCATCTAAA
39051	TCCTTATTTT	AAAAACCAGG	AAACAGAGTC	AAACATTTTC	TCAGTTATCA
39101	AGGCAGTAAA	CCAAAGATTG	TCACCTGCAC	AGGAGAATCT	ATGATTTGTT
39151	CTTCTCATCA	TTATACATTT	CACGAGCATT	GACTCAAAAA	ACCATGCTAC
39201	CTATAAACTA	ATCAACAATT	GCTTCTTCTA	GGGACTGAAA	TTTTAAAAAT
39251	TCAGACGTGG	AGGATCGACT	CTACTTCAAA	GCAAAATTCA	GTGGACTTCT
39301	GCACACATG	CCATTCTAAT	CTGTTACAAG	TCTGCACTTT	GGAGATTAGT
39351	TCATGCTACA	CACTTAGAGG	TGTAATATTT	TCCTACTTGG	GAAAAATTGAA
39401	ATTACTTAGA	TACAAAAGAG	TGGTTGTAGT	AAGAAAATAG	GCAAGGAGAA
39451	CATTTTAAAG	TGCTGATCCT	CGGTAAAGCC	ATACATAGGA	TGCACCTGGG
39501	AGCAGATCTT	TCTGAAGTCA	TTCTGTGCTC	AGAGATGTTT	CTCCTTACCT
39551	TGCTGCCTAT	GTCAAATTCT	CTGTGATATG	TTCTTAGAGC	CCCATGACCT
39601	CTCTTCTTAA	CTTGCACTGG	GAGCTTGAAT	TTTCCATTTA	TTTTTGTGAC
39651	CATTTAGTCT	ATAAGAGTCT	CCGTCTTTAC	AGGGCCCTCA	CCTGACTACA
39701	GACTCCATAA	AGGCAGAGAT	TCTATTTTAA	CTCTATTATT	ACTGTATTCC
39751	CAGCACTAAG	CACTAGGATT	AATACATAGT	AAGTGTTCAA	CAGATGTTTA
39801	CTGGATGATT	AGATTGGCAT	TTTAAGGTAG	TCTGAGATCA	CGTTTTAGAC
39851	AAGATACTTC	AGTTTAGTCC	AATCTTTATT	ATTTATTAGC	TACTAAAGAG
39901	AAATTGATAA	TTACTCATGA	TATTCTTCTT	TTTTGTTTTA	CAGTCAACTT
39951	TGACCACTTT	GAAATTTTGC	GAGCCATTGG	GAAAGGCAGT	TTTGGGAAGG
40001	TGAGAACAAA	TTGAAATGAT	TAACCACCAG	CAGGGTTATG	TAGCCCAGGG
40051	AACAGAGGGT	CCAGAAATGT	TCACATTATT	GAGTTGCTGG	GACCACAAGG
40101	AAAGATAATT	AAGTGAAAAT	GTTTTTGTAA	TGGATTTTTA	TAAAATTGTC
40151	ACCACAGTTT	AAGAAAAGCG	TGTGACAGGC	AGCTACATAA	TGAACATATA
40201	CTGTTGTCAG	AATAATCTCA	TTAAACTCAA	ATCTGTTTAC	TCTCAGTAAA
40251	CTTTAAGGCT	TTTCTCTCTA	CCCTAAAGGA	GATGAAGATT	TCAGAATCAT

FIGURE 3M

40301	TTTCAGATTC	TACCAGCTGT	ATGCCCAGTA	ATAGTTATCT	TGTTTATGGA
40351	AGAGTTACTT	ATTTTCATGT	GGGAAAGAAG	TCATCCGATT	TCTATTTGTT
40401	TCCTCATTTG	TCTAATGTTT	TTATCTTAAG	AAAAATACAT	ATTCAGTTTA
40451	ATTTTTTTTG	CAAGAACTT	CTGTATTCAA	ACCCTGATTA	CTAGTTTCTC
40501	AATGGAGACG	TACTTTAAGA	GAATAATATT	TCATATAAAA	CTTGCATTTT
40551	AAAATCATTT	TCTGTTTACT	TTTTCCAGGCA	TTATACAGAC	CTCTAAAGAA
40601	ATTTCAAAAA	CATGGACATC	ATATTTAGTG	TTTTTCCAGT	CCTTAAAGTC
40651	CTTTTTGGTT	ATATCATGTA	TGGGTTGTAA	ACAGAAATTC	TTTGACACAGT
40701	ATTATTCAGC	TTGACAGTTC	AGTCATGTCT	ATTTCAAGTCA	CTCAAAGCAG
40751	GATTAAGGAT	GTTACTTGTT	ATTGGAATAT	TCCTGACATG	GAGGCAGCTA
40801	TTTTCAACCA	AATGCTGTCT	TAAAAGCCCA	AAAAGCAATA	CCAGGCAAAA
40851	TTGTTTGAGA	AAAAAGAGAT	CCAAGAATTG	AACTGGTGCA	TAGAAAAAGAA
40901	AATGAAATTT	TAAATCTAAA	ATCAGAGCTA	AGTGGGAGCT	TTTAACATCA
40951	TATAATTTGC	AAATGTTAAG	GATCCAAGCC	ACAGCAAAGA	ACATGTCTTG
41001	TTCTGTCTCT	CATCACCATG	ATCCATTATC	TCCCTAATCA	CTCTCTCACT
41051	CGGGTTTTCA	CCATTAGGTC	TGCATTGTAC	AGAAGAATGA	TACCAAGAAG
41101	ATGTACGCAA	TGAAGTACAT	GAATAAACAA	AAGTGCGTGG	AGCGCAATGA
41151	AGTGAGAAAT	GTCTTCAAGG	AACTCCAGAT	CATGCAGGGT	CTGGAGCACC
41201	CTTTCCTGGT	TAATTTGTGG	TGAGTAATTT	TACTGGACCT	CTGAATAGAG
41251	ACACTCCTGT	TATCGGTGGG	CTAGGGGAGG	TCCCCAAATG	CCTCTGGGAC
41301	CTCAGCCCTG	GCTGGTATCC	AGGCTCTTGA	CACAATTGCA	AGAAAAGATT
41351	CAAGGATGAG	TTGGAAAACA	GTGAAAGTAC	AGAGATTTAT	TGCAAAAGTGG
41401	AAAAGTACAC	ACTCAAGAGA	GGGGAGCATG	GGTGAACCTC	AGCGAATGTC
41451	ATGTAAGGGG	GGGTTTGAGG	CTGCTGCCAT	AATGGGTTTC	TTTAACCAAG
41501	GGGTGAAACA	TTTATGATGA	TTCTTGAAAA	AAGATGGAGA	TTTCTTGGAA
41551	CTGTGGTGCC	AGCTATTTTT	ACACCAAATA	TGAATGTTCC	TGGAACTGTC
41601	ATGGTGCTGG	TGGGTGTATG	ATTTAGTATG	TTAATGAGTG	TATGATGAGG
41651	TCCTAGGTGA	AACCTAGGTC	AAATCCAGCA	CAATGGAGAG	GACCCACAGA
41701	CTCTCTGAAG	GAAACGACTG	CTCCTGCAGG	ACCCAGGCAA	CTCCCCCAA
41751	ACTGTGAGTA	CCCCAACTGT	GGAGGTGGGA	AAGAGAGACC	CTCCTCTCCC
41801	AAACACACAC	CCCCACTGGA	GAAGCTGAAG	GTCTGTTTGC	TGGAGAAGTT
41851	TCTGACTTTA	CCTGGAGCTG	AGTGGACTTG	AAGAGCCAG	TGAAATACAC
41901	GGGGAGAAGA	AGCAGCAGAA	AGGCCCTGGG	AGCTTGCTGG	GTCCACAAGC
41951	AGGCCATTCC	TGCCTGGCAC	CACAGGGATC	CAATGGGAGA	GGAGCGGGGG
42001	TAAAATTCCA	TAGGGAGAAG	CAAATCTCTA	GCTGAACTTG	GTGACAATTT
42051	GAACAGGGTG	AGAAAGCGCC	TGGCCAGAAC	TCAGGAGAGG	GCACAAATCC
42101	AGTGTGCAGA	CTCCGGGGGC	AGGGGATAAA	CCAAGCTCTT	TTATTTCCCA
42151	GCTGGGAGCG	GGGAGCCTGG	GGCAGGTTTT	CAAGCAGGTA	TTGCTTCTCT
42201	ACTTAGAAAC	AACCTGGGAG	CTGTGTTGGC	GGGGGAGGGG	GGTTGGGGAT
42251	GGGGGAGGGG	GGTGGTGGAA	AGCACGGTGG	GAGTGAGACC	GGCCCTTCGG
42301	TTTTCATGGG	AGCTGGGTGA	GGCCTGTGAC	TGCCAGCTTT	TCCCCACTTC
42351	CTGACAATCT	GCATGTTTCT	GCAGAGACAG	CCATAATCCT	CCTAGGTACA
42401	CAACTCCAGT	GACCTGGGAA	TCCCACCCCC	ATTCGCCACA	GCAGCAGCAG
42451	CAGCAAGGCC	CACCCAAAGG	AGTCTGAGCT	CAGAGACACC	TAGCCCTGCC
42501	CCCACCTGAT	GGTCCTTCCT	ACTCACTCTG	GTATCGGAAA	ACAAAGGGCA
42551	TATAATCTTG	GGAGTTCTAG	GGCCCTGCCC	ACTGCCAGTT	TCTCCCCATA
42601	ATACCAAAGC	TGATGCTCTC	TGGAAAAGCA	CCACCTCCTG	GCAGGAGGAC
42651	AACAGCACAA	AAATAGAATA	TTAACCAAAG	CTAAGAACCC	TTACAGAGTC
42701	CATTGTACTC	CCTGCCACCT	CCACCAGAAT	AGGCACTGGT	ATCCACAGCT
42751	GAGAGACTCA	TAGATGGTTC	ACATCACAGG	ACTCTGTGCA	GACGACTTCC
42801	AGTACCAGCC	TGGAGCTGGG	TAGGCTAGCT	GGGTGGCTAG	ACCCAGAATA
42851	GAGATAACAA	TCACTGCAGT	TCAGCTCACA	AGAAACCATA	TCCATAGGAA
42901	AGGAGGAGAG	TACTACATCA	AAGGAACACC	CAGTGGGACG	AAAGAGTCTG
42951	AACAAGACTT	TCCCTCTGAA	AGAGCCTACC	CAAGTGAGAA	GGAAACAGTA
43001	ATATGACAAA	ACAAGGCTCT	TGATGCCCCC	CAAAAATCAC	ACTAGTTCAC
43051	CAGCAATGGA	TCCAAACCAA	GAAGAAATCC	CTGATTTACC	TGAAAAAGAA
43101	TTCAGGAGGT	TAGCTATTAA	GCTAATCAGG	GAGGAACCA	AGAAAGGTGA
43151	AGTCAAGTGC	AAGGGAATCC	AAAATATGAT	ACAAGAAGTG	AAGGGAGAAA
43201	TATTCAAGCA	AATAGATAGC	TTAAAGAAAA	AACAATACAA	AATTACAGGAA
43251	ACTTTAGACA	CACTTTAAAA	ATTGCAAAAT	GCTCTAGAAA	GTGTCAGCAA
43301	TAGAAATTGAA	CAAGTAGAAG	AAAGAAATTC	AGAGCTCGAA	GACAAAGTCT
43351	TCAAATTAAC	CCAATCAAAC	AAAGACAAAG	CAAAAAGAAT	AAGAAAATAT

FIGURE 3N

43401	AAACAAACT	CCCAAGAAGT	CTGATATTAT	GTAAATGAC	CAAACCTAAG
43451	AATAATGGGT	GTCCCTGAGG	AAGAAGAGAA	TTTTAAAGC	TTGGAAAAACA
43501	TATCTGAGGG	AATAATTGAG	GAAAACTTCC	CCGGCCTTGC	TAGAAATCTA
43551	GACATCCAAA	TACAAGAAGC	ACAAAAACA	CCTGGGTAAT	TCATCGCAAA
43601	AAGGTATTTG	CTTAGGCACA	CTGTCATCAG	ATTATCCAAA	GTAAAGATGA
43651	AGGAAAGAAT	CTTAAGAGAT	ATGAGACAGA	AGCACCAGGA	AACCTACAAA
43701	GGAAACCTA	TTAGATTAAC	AGCAGATTTT	TCAGCAGAAA	CCCTACAAGC
43751	TAGAAGGGAT	TGGAGCCCTA	TCTCTGGCCT	CCTCAAAACA	ATTATTAGCC
43801	AAGAATTTTG	TATCCAGTGA	AACTAAGCAT	CATATATGAA	GGAAAGATAC
43851	AGTCATTTTC	AGACAAACAA	ATGCTGAGAG	AAATTGCCAT	TACCAAGTCA
43901	CCACTACAAG	AACCGCTAAA	AGGAGCTCTA	AATCTTAAAA	CAAATCCTGG
43951	AAACACATCA	AAATGGAACC	TCTTTAAAGC	ATAAATCACA	GAGGATCTAC
44001	AAAAATAAAA	TACAAGTTAA	AAAGCAAAAA	CAAAACCAAA	AAAATCTGCA
44051	GGACCCAGGA	GACCACCCCC	AAAAAAATGT	GAGTGCTCCA	ACTGTGGAAG
44101	TAGGAAAGGA	AGAGCATCCT	TTCTGAACA	CACACCCCA	CTGGAGAAGC
44151	TGAAGGTCTG	TTTGTGGGAA	GAACAGCTTT	AGCTCTTTT	TGGTTTTTTG
44201	GAAAAAACCC	CAAAGTACAC	AGGCAACAAA	GAGCATGATG	AATGCCAACG
44251	GTACCTTCAC	ATTTCAATAC	TAACATTGGA	ATGTAAATGG	CCTAAATGCT
44301	CCACTTAAAA	GATACAGAAT	CACAGAATGG	ATAAGAATC	ACCAACCTAC
44351	TATGTGCTGC	CTTCAGGAGA	CTCACCTAGT	ACATAAGTAC	TCACATAAAC
44401	ATAAAGTAAA	GGTGTGGGGA	AAGGAATTTT	ATGCAAATGG	ACACCAAAAG
44451	CGAGGAGGGG	TAGCTATTCT	TATATCAGAC	AAAACAAACT	TTAAAGTAAC
44501	AGCAGTTAAA	AGAGAGACAA	AGAGGGACAT	TATATAATGG	TAAAAGGCCT
44551	TGTTCAACAG	GAAAAATGTC	CAATCCTAAA	CATATAAGCA	CCTAACACTG
44601	GAGCTCCCAA	ATTTATAAAA	CAATTACTAA	TTGACCTAAG	AAATGAGACA
44651	GACAGCAACA	CAATAATAGT	GAAGGATTTT	AATACTCCAC	TGACAGCACT
44701	AGACAGGTCA	TCAAGAGAGA	AAGTCAACAA	AGAAACAATG	GATTTAAACT
44751	ATACCTTGAA	ACAAATGGAT	TTAACAGATA	TATACAGAAC	ATTTTCATCCA
44801	ACAACCTGCAG	AATACACATT	CTATTCAACA	GAGCATGGAA	GTTTCTCCAA
44851	GATAGACCAT	ATGATAGGCC	ATATAATGAG	CCTCAATAAA	TTTAAGAATA
44901	TTCATATTAT	ATCAACATTC	TCTCAGACCA	CAGTGGGAATA	AAACTGGAAA
44951	TGAACCTCAA	AAGGAACTTT	CAAAACCATG	CAAATACATG	GAAATTAAT
45001	AACCTGCTCC	TGAATGGCAT	TGGGTCAAAA	ACAAAATCAA	GATGAAAATT
45051	TAAAAATTCT	TCAAACCTGAA	TGACAATAAT	GACACAACCT	ATCAAAAACCT
45101	CTAGGATACA	GCAAAGGCGG	TGCTAAAAGC	AAAGTTGATA	GCCCTAAACG
45151	CCCACATTGA	AAAGACTGAA	AGAGCACAAA	CTGACACTCT	AAGGTCACAC
45201	CTGAAGGGAC	TAGAGAAACA	AGAATAAAAC	AAACCCAAAC	CCGGCAGAAG
45251	AAAGGAAATA	ACCAAGATCA	AAGCAGAACT	AAATGAAATT	GAAACAAAAA
45301	AAAAAAAAGA	AAGATAAATA	AAACAAAAAG	ATGGTTCTTT	GAAAAGATAA
45351	ACAAAATTGG	TAGACTATTG	GCAAGATTAA	CCAAGAAAAC	AAGGGAGAAA
45401	ATCTAAATAA	CCTCACAAAG	AAATGAAACA	AGAGATATTA	CAACTGACAC
45451	CACTGAAATA	CAAAAGATCA	TTCAAGGCTA	CTATGAACAC	CTTTATGCAC
45501	ATAAACTAGA	AAACCTAGAA	GATATGGATA	AATTCCTGGA	AAAAATAAAC
45551	TCTCCTAGCT	TAAATCAGGA	AGAATTAAAT	ACCCTGAACA	GATCAATAGC
45601	AAGCAGCGAG	ATTGAAACGG	TAATTTAAAA	ATTACCAAGA	AAAAATGCCA
45651	GGACCAGATG	GATTCACAGC	AGAATTATAT	CAGACATTCA	AAGAAGAATT
45701	GGTACCAATT	CTTTTGACAC	TAAGGAAACC	TCCCCTAATT	CATCCTATGA
45751	AGCCAGCATC	ACCCTAATAC	CAAAACCATG	AAAGAACATA	ACCTAAAAAG
45801	AAAACCTGCAG	ACCAATATCA	TTGATGAACA	CAGATGCTGA	AATCCTTAAC
45851	AAAATACTAG	CTAACTGAAT	CCAACAGCAT	ATCAAAAAGA	TAATCCACCA
45901	TGATCAAGTG	GGTTTCATAT	CAGGGATGCA	GGAATGGCTT	AACATACACA
45951	AGTCAATAAAA	TGTGACACAC	CACATAAACA	GAATTTTTTA	AAAAATCACA
46001	TGATCATCTC	AGTAGGTGCA	GAAAAAGCAT	TCAACAAAAT	CCAGCATCCT
46051	TTTATGATTA	AAACCTCAG	CAAAATCAGC	ATACAAGGGA	CATAGGCCTT
46101	AATGTAATAA	AAGCCATCTA	TGACAAACCC	ACAGCCAACA	TAAACTGAA
46151	CACATTCCCT	CTGAGAACCA	GAATGAGACA	AGTATGCCCC	CTCTCACTGC
46201	TCCTCTTCAA	TGTAGTACTG	GAAGTCCTAG	CCAGAGCAAT	AAGACAAGAG
46251	AAAGAAATAA	AGGTCATCTA	AATCAGTAAA	GAGGAAGTCA	AACTGTCACT
46301	GCTTATTGGC	GATATGATCG	TTTAACTTGA	AAACCTAAG	GACTCTTCCA
46351	GAAAGCTCCT	AGAACTGATA	AAAGAATTCA	GCAAAGTTTC	CGGATACAAG
46401	ATTAATGTAC	ACAAATCAGT	AGCTCTCCTA	TACACCAACA	GCAACCAAGT
46451	AGAGAACCAA	ATCAAGAACT	CAATCCCTTT	TACAATAGCT	GCAAAAAAAA

FIGURE 30

46501	CAAAACAAAA	CAAGACAAAA	CAAAAAAACA	AAAAAAAACA	AATACTTAGG
46551	AATATACTTA	ACCAAGGAGT	AGAAAGACCT	CTACAAGGGA	AAATTACAAA
46601	ACACTGCTGG	AAGGAATCAT	AGATGACACA	AACAAATGGA	AACATGTCCC
46651	ATGCTCATGG	ATGAGTAAAA	TCAGTATTGT	GAAAAATAAC	CATACTGCCA
46701	AAAGCAATCT	ATAAATTCAA	TGCAATTTCC	ATCAAAATAC	CACCATCATT
46751	CTTCACAGAA	TTAGAAAAAA	CAATTCTAAA	ATTCATATGG	AACCAAAAAA
46801	GAACCTGCAT	AGCCAAAGCA	AGACTAAGCA	AAAAGATCAA	ATCTGGAGGC
46851	ATCACACTAC	CTGATTTTCAA	ACTATACCAT	AAGCCCACAG	TCACCAAAAC
46901	AGCATGGTAC	TGGTACAAAA	ATAGGCACAT	AGACCAATGG	AACAGAATAG
46951	AGAACACAGA	AATAAACTCA	AATACTTACA	GCCAACTGAT	CTTTGATAAA
47001	GCAAATGAAA	ACATAAAGTG	GGAAAAGGAC	ACCCTTTTCA	ACAAATGGTG
47051	CTGGGATAAT	TGAATAGCCA	CAAGTAGGAG	AATGAACTG	GATCGTCATC
47101	TCTCACCTTA	TACAAAAATC	AACTGAAGAT	GGATTAAGGA	CTTAAACCTA
47151	AGACCTGAAA	CTATAAAAAAT	TCTAGAAGAT	AACATTGGAA	AAACCCTTCT
47201	AGACATTGGC	TTAAGCAAGG	GTTTCATGAC	CAAGAACCCA	AAAGCAAATG
47251	CAATAAAAAAC	AAAGATAAAT	TGCTGGTACC	TAATTAAACT	AAAGAGCTTT
47301	TGCATGGCAA	ACGGAAGTCA	GCAAAACAGCC	CACAGAGTGG	AAGAAAATCT
47351	TCACAATCTA	TACATCTGAC	AAAGGATGAA	TATCCAGAAT	CCTACAATGA
47401	ACTCAAGTAA	ATCAGTAAGG	AAAAAACAAT	CCTATCAAAA	AGTGGGCTAA
47451	GGACATGAAT	AGACAGTTCT	CAAAAAGAAG	TATACAAATG	GCCAGCAAAC
47501	ATATGAAAAA	ATGCTCAACA	TACTAATGA	TCAGGGAAAT	GCAAATCAAA
47551	ACCATAATGT	GATTCACCTT	TACTCCTGCA	AGAATGGTTA	TAATAAAAAA
47601	AAAATCAAAA	AACAGCAGAT	GTTGGCATGG	ATGCAGTGAA	CAGGGAACAC
47651	TTTCTACACT	GCTGGTGGGA	ATGTAAACTA	GTACAGCCAC	TATTGAAAAC
47701	AGTGTGAAAA	TTACTTAAAG	AACTAAAAGT	AGAACTACCA	TTTGATCCAG
47751	CAATCCCTCT	ACTGGGTATC	TACTCAGAGG	AAAATAAGTC	ATTATTCAAA
47801	AAAGATACTT	ACACATGCAT	GTTTACAGAG	CACAGAGTTG	CAACCCAAAT
47851	GCCCATCAAT	CAATGAGTGG	ATAAAGAAAC	TGTGGTATAT	GTATACATGA
47901	TGGAATACTA	TGCAGCCATA	AAAAGGAATG	AACTAACAGC	ATTTGCAGTG
47951	ACCTGGATGA	GATTGGAGAC	TATTATTCTA	AGTGACGTAA	TTCAGGAATT
48001	GAAAACCAAA	CATCATATGT	TCTCACTGAT	ATGTGGAAGC	TAAGCTATGA
48051	GGATGCAAAG	CAATGAGAAT	GATACAATGG	ACTTTGGAGA	CTTAGGGGGA
48101	AGAGTGGGAG	GGGGGCGAGG	GATACAAGAC	TACAAATGTG	GTGTAGTGTA
48151	TACTGCTCAG	GTGATGGGTG	CAACAAAATC	TCACAATCAC	CACTAAAGAA
48201	CTTACCCATG	TAACCAAAAC	CACCTTTACC	CCAATAACTT	ATGGAAAAAT
48251	AATCCAGCAC	CACATTAGGT	TTAGTCGGAC	TTAGCCAGCT	TGGCTTACAC
48301	CCTGGTTTTT	CAGGTTCTTA	TCATTCCCAG	TTTATGCAGC	TGTTTCAACA
48351	TTTTCTTTT	GCTAGTCATG	TGAACTGCT	GTCTGGAATT	TTCTTTTCTC
48401	CTGCTACCAC	CCTTTATTAT	TCCTGTCTCA	CTTTCATCTT	CATCCCTACT
48451	GTTACATAAA	TGCATCTTGA	TTTCTAGGCA	AGCATTTGTC	AAATTCTCAT
48501	TAGGATCTTC	CTCAGGGTCT	TTTGTCTCC	TTAGTTTCTT	TGGCTTTATA
48551	GTGAAAGAAC	ATTTTTCTTT	TATTGTCACT	AACAAATACT	TCTTGGTCAG
48601	TTGTACACAGT	TCCCCTTGTC	CTTGAGGTCA	ATATATATAT	ATTTTTAAAC
48651	ATTGTAATTA	AATATGCTGA	CTGGGAAGGA	GTTTCAGATGT	CTTACTAGTT
48701	ATTAGATACT	TTCTTTCCCC	ATGAACTGCA	CGGGAGGAAAC	TTTGGTTACA
48751	AAGCTTGGCC	TCATCAGCTG	ACTTGAGGTT	GATATTTAGA	ATTTATACGA
48801	AGCACTTTCT	CCCTTAAAAT	AACTGGCAAT	AAAAGTGTG	CTTTGTAGCG
48851	TATTTCTTAG	GCAGCCACAT	ATATACCTGT	AAGTTAGACA	AGGATAGGTG
48901	CTTCCTTTGT	CAACAAATAG	CTTTTGACAG	GCTGAAGCTA	ACTTGTATCA
48951	ATGACTAGAC	ATTAAGTGAC	TGTGATCTGC	GCTCCAAGCT	ATTTCCATAA
49001	TCCAAGGCAT	AGAAAATGGC	AGAGAAGCTT	GCAGTATCTG	TTACCTCCTG
49051	TTCTTTTCTT	GTGTGTCAAG	GTCTTTGTGT	GTCACCTTCC	ATTTTATTTT
49101	ACATTTTAAAT	GCGTCCATTA	TGTTAAGTGG	TGTTTCTTAA	AGCTAATTCA
49151	GGATGACTGT	TATTTAAATA	TGCATACCAA	GAAGTTCTGA	CTTACCAGCA
49201	AAGAAAAAAA	AGGGTCTTTA	TTCAGAGAAT	GCTAATGGAA	AAATAATTGA
49251	GGTTTACTC	TGTGTTTAGG	GACATCCTTC	TGGAGAAATC	AGTACATAAA
49301	ACCTGCCTCC	ATCCATCTTT	AATTATTACA	GTTCATTTAA	TATACAATTT
49351	GCTCAAAGCC	TCTATGCCAC	AGTTGAAAAG	AAGATGGTTT	TATGTGACTT
49401	GGAAATAGGT	CTATTACAGT	TTATGCACTA	CTCGGATATG	GTAGAGTCTA
49451	ATTTTCAGCTT	AAGCTCAGTG	TATTTAATCA	GTATCTTAGA	GTGGCCTATT
49501	CAAAATGCTG	CCATGTAAAA	AGCTAAAATG	GATGCAGCTC	TTTCTTCCCT
49551	ACCCTTAGCA	ATCATCAAAAT	TGCCTTTCTT	CCCCTCTCTC	TGCATCCTGA

FIGURE 3P

49601	GAATGACAAG	ATACTGTCAC	TTCACAACCT	CCCTTTGTTC	AAAGTCACAT
49651	TTTTCTTCTT	AAAAAGTTTA	ACCAACTAAT	TTTTTTTTTT	TTAAGACCAG
49701	GGACCCATGA	TAAGGCCTTA	GCATTTTACC	TTCTCATATT	TGCTTTTCAT
49751	CGCTGTGTGG	GCAAAGTTGA	TTTCATTCTG	TTCTTTTTTT	TAAGAAAATG
49801	GGTATTGTGA	GGCTTTAAGC	TGGCCAAAGA	TGATAGATTT	TGCTGTTTGC
49851	TAATTTGGTG	TCATTCCAGA	CAACATTCTG	TTCTCCATGC	ATACTGACCT
49901	GGTGATAACA	TGACATATAA	CCTATTCTTT	CCTTCTCACT	TCTCACATTG
49951	AACCTCACAG	TGGAACACTA	GGCATCATTA	ACAATGATAG	AAGAAAAGAGA
50001	GGAGACTTAC	CTCCACCCAG	TGATTCTGGT	ACTACATTCA	AAACTAGAAA
50051	CTAACTGGGA	GGGGGAATTC	TTAAAGTACA	ACAGCAACTC	CCTTTGTCTT
50101	CCAAACCATG	AGAAAAATCT	TCACAAATCT	GTATCATTCT	TCCTAATAAA
50151	TGCTTTTTGT	TTTAGTAAGT	ACAATATATT	CAATGTAAGT	TTATCTTTCC
50201	ACATTTATAA	ACCATCTTGC	AGTGCTTTTG	AAGGTGTGAT	TGTGAGTGTA
50251	TTAGTCAGTT	CTCACATTGC	TATAAAGAAA	TACCTGAGAC	TGGGTAATTT
50301	TTAAAGAAAA	GAAGTTTAAG	TGGCTCATGG	TTCTGCAGGC	TGTGCAGGAA
50351	GCATAGTGCC	TTCTGCTTTG	GGGAGGACTC	AGGAAGCTTC	CAATCATTGT
50401	GGAAGGCAAA	AAGGGGAGCA	GGGCATCTCA	CATGGTGCGA	GCAGGAGCAA
50451	GAGAGAGGAG	GAGAGAGTCA	CTACACACTT	TTAAATGACC	AGCTCTCTTA
50501	AGACCTCTAT	CACGAGAACA	GCACCAAGAG	GATGGTGTGA	AACCATTTCAT
50551	GAGGATCCAC	CCCCATGATC	CAATCACCTC	CCACCAGGCC	CCACCTCCAG
50601	CATTGGGGAT	TACAATTCAA	CATGAGATTT	GGGTGGGGAT	AGAGATGCAA
50651	ACCATATCAG	TGAGTAATTT	ACTTCATCAT	TTTTAAGTCA	CATGGTTATA
50701	AGATAGGGTT	AATGTGTGTA	ACTTTACATT	TATAAATGAA	ATGAATAAAG
50751	TGCTATGGCC	AGTACCCAGC	ACATAGTAAC	AGGTGTCTTA	CAAATATTCTG
50801	TTCTTTCTTT	CCTTACTTCA	TGAAGTTATG	ACATTCTGAA	CTTGCCCATC
50851	TCCTATGGTT	CATTGTGGAC	ATCCAAAGGA	CAAATCTAAA	TGGTGCTTGG
50901	CCCCAGGACA	TCATGGAAAG	CTGTATGTGC	AGTGTCAAGG	GGGTTATCTT
50951	CAACTCATTG	TCTATAAGAG	CATATGTTGC	TTGTTTTGTT	TTGTTTTCTA
51001	TCCTCATTCT	GCAANNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
51051	NNNNNNNNNN	NNNNTATCTT	TACCACCCGA	AAGCATTAATA	AGCTTAAGAA
51101	GCATTGTATT	ATTTATAAAG	TAACAGCAAT	ACTTTTAAAA	TTTCTGCCTT
51151	CTTTGTGTAC	TCTATTTTAT	GGATATGCTG	TGTAGGCCTC	TCAATAATAC
51201	TTTCAATAAT	CTCATTTCATG	CTAAAAAGCC	CCTAGCTTCT	GGAGATTTAT
51251	AAAATTCTAG	TTTTCAAGCT	GAGGGTAAAC	AAATTGTTCC	TTTTTTAAGT
51301	GAGTTAAGAT	TAAAAAGTTT	GTGTGTGTGA	ATAGGTATAA	ATGTATACAT
51351	ACATATGCAT	ATATTTATAC	ATTTATACCT	ATACACACAC	AAACATATGT
51401	TTTTCAATAT	CATATATATG	TATTATATAT	ATGAATATCA	CATATATATG
51451	TGTGTGTATA	TATATATGTG	ATATTTGAAA	ACTCTTCTGC	TCATTGCAGT
51501	CAACTTGAAA	AACAGAAAAA	TACCTAGAAA	AATGAAAATT	CTTCAATAAT
51551	TCTTATCACC	TTGTAACAAT	CACCTTCTAAC	ATGTTGGTGT	ATGCTTTTCA
51601	GTAAAATGTC	TGCAATTTGAT	TTTCTGTTTT	TGATCATGCA	TTAGCCTCAA
51651	TCATTCTTTC	TTTCACCTAT	ATGTTTACTG	AGCATCGAAA	ACAAGTTATA
51701	ATTTGATTGC	TAGGTGAAAT	ACAAGATGCA	CAGTTATATT	TGAATTTTCA
51751	ATAAACAACC	AATAATTTTT	AGTATATGGC	CCAAATATCA	CGAGATATAT
51801	TTTTACTGAA	AATTTTTTAT	TATCTGAATC	TGAAGTTTAA	TTATGCATGT
51851	TGTACTTTTA	TTGGTTAAAT	CTGGCAATCT	TAAGTGTAGT	AGAAACCCAT
51901	GCTATGGGGA	TATCTTGGTG	AGCAGAAATA	GACGGAGCCC	TGATATTAAAT
51951	CAAATGGCAC	ATGAATATAT	AAACTGTGAG	AAGTATATAA	AGAGAGTAAG
52001	TATGAAGAAC	TGTGTGTGTG	GTGTGTGGGT	ATGTATGTGT	TGGGGTTTCA
52051	GAGAAAGAAG	GTAAGTAGTC	TGGGGGACAG	GACGTTAAGG	AGGAAAGAAC
52101	ATTTGGAAAT	AAAATTCAAC	CTGACTTGCC	TCCAGGGACC	TGGCTACACT
52151	CAGGAACAGT	CTTCAAATGT	AGGCCATGTT	ATCAAGTGAA	TGCTGCCAGA
52201	CAGGGCTGGC	ATCCAGGAAA	AGTAAATAAA	ATCTTCTTGT	GCGTCTGTCT
52251	CTGAGGGCTC	TTCAAAAGC	CCTGGCAACC	CACAGCCTGA	AAACAAATAG
52301	GCCCCAGTCT	TTCCAGCAT	AGTTGATTCC	CCAGGTGGCT	TTTGTTAATT
52351	GAGATTAAAC	CTGTAGCTGC	ACACAACCTC	TCAGGCCTC	TATCTCTTTA
52401	CTCATGTCTT	TGTCCCTGTG	GATAGAAGGG	GTCCACATGT	GGTTTCAGGA
52451	AATTAGGACA	CCAGATCATC	TGTTTTAACT	GGAAAGAACT	ACCTGTACTG
52501	AGAGTGTGAC	AAGGTCCTTT	CAGACTCTGA	ACATAGCCCA	ATAAATGGTA
52551	TCAACCTTAA	ATAACGAGAT	TCTGAAAATA	TGATTAAGTA	TCGAGTTTGC
52601	TGGAGCCCAG	AGCTTGAGGA	TGCCACCTG	GGAGCACAGA	TTCACTTTGC
52651	CCAGAATGTA	CACTCCAATT	AGCAGCAGTT	ATAAGTGGGG	TTTTAAGAAA

FIGURE 3Q

52701	AAAAGACAAG	GCAGTTCCTA	AGTTATTTAC	CAAAAATTTA	CATTAAAATA
52751	ATGTAAGCTA	TTGATGGACT	ATGCATTATT	CTTTATATCA	CAAATTACAG
52801	GAACACAAAG	ATAATGGGTG	AGGCAGCTAG	TCAGGAACAA	AATGGCTTTA
52851	AAATACTGTC	CTTGAGCATG	GGTTTGAGGC	TGTGACTGAC	ATCCCACTACT
52901	CATGTTTCTC	TAAACCTAAT	AAATTGTGCA	TATCTCATAT	AGCTCAGACT
52951	GCTCTGAGCT	ATTTTTGTTT	TCTCATTTCC	CCCCTTTTC	TCAAGATTTT
53001	GCAAAGAAAG	CATTGTGGAT	GAACCTAAGC	AGTTTTGGCT	CCTTTTATGT
53051	TCAGGAACCT	AGTCCTGCAT	TGCTAGGAAG	TCTTATTTCC	AGATGGTCTT
53101	GTCACACATT	TGGGGGAAGG	GGAAAGGATG	AGTCTTAGTG	GGGATTTTAA
53151	CACCATCAGA	AGCAAAATTG	GGATGGCATC	GCAGGGTGCC	ACAAATGAGA
53201	CCTCACCCAA	GTCACCTAAT	TATGTAGCTA	CTGTTGCTTG	TGGGATCATC
53251	TCCAGGCTTC	AGAATACCAT	GCAGTTAGTT	TTCTCGGAAT	AAGTAAAACA
53301	ATGAGCTATA	CATAGTAGAA	ATATAATACA	CATAACAATT	ACAATTAATA
53351	AAAAAAAAGA	ATTTCTATGC	CTGAATGAAA	AAAATATCTA	TTCCATTGGA
53401	AAGTCAACTA	AAAACATCAT	GAAGAAAATT	AAAATCCAGT	CCTTTCTTAG
53451	AGACTTGTTG	TAGCAGGAAA	TAATTCAGA	TTTAGATCAA	ATTGTAGGAA
53501	AATAATAAAA	ACTAGAAAAC	AATGGTCAGG	GCTGAATTTA	AAAACAGGTG
53551	TGCTATAATT	TTCTTCTGAA	CCATAATTTT	TCTCTCTTCA	GTTCACTATT
53601	TCTACCCAAG	ATAAATGTTA	TCAGGACCAA	CATACTTGTA	AAATAAGCTT
53651	TAGTATTATA	TTTGGCCTAA	TTATTTGCAT	TAAGTGCAAC	AAAAATAATG
53701	AATGGCCATG	TACGCATTTT	TAAGTTGGCT	TTGCTGGAAC	TTTTTCATAA
53751	GGAATCTCAG	ATTAGACTTT	TAAAAGCCTC	TCTAACTAG	ATATTGAAGC
53801	CAATAATTCA	CCATCAAACT	GCCTGTAGCA	TCTACATAAA	TTGGGTGAAT
53851	TTCTCCCTTC	TTCAGGTTCT	GAAATATATT	GAGGTTTCTA	GGCCTGTCAA
53901	ATGATGACAT	TCTTTACTTA	CTGCAAGGTC	AAAAAACTTG	TGAGGGTACC
53951	ATGTAGACAA	GGTATCAGGT	CAGTTTTCCA	AAAGGACTAT	TGATTTGGCT
54001	CTATAAAGTC	AACCTCAATT	CATCAAAGCA	GTTTGGTCAT	ATCTGAAAGT
54051	ATGTCATTTT	ACCCAAAGCC	TTGGTAAAAT	GACCAGCCTT	AGTAAAATGA
54101	CCAGTGTCTC	CAACTGTGTA	CTGTTACAGA	AGAAAACAGG	TTCTTACTGA
54151	ACTTACACAA	ATAACAATAT	TGCCATAAAT	AAAGAGTATT	CACAAATAGT
54201	TTCCAAATTC	TGGAGGAATC	AGGTAGAGAG	TAAGATGTTT	CAATTTTGCT
54251	CATAAAAGTA	TACTTTACTT	AATTGTTGTA	AGCTCTAAAT	AGCTCAAAAA
54301	AAATTCTTGA	CTTTGGAAAA	CAAAACAAAA	AGAATCAGCA	ATGTTCCAAA
54351	CAAAAAAAGT	CATTAAAAAA	ATTTCAGTCC	TGGCCAGGTG	CAGTGGCTGA
54401	TGCCTATAAT	CCCAGCATTT	TGGGAGGCCA	AGGCAGGTGG	ATCACCTGAG
54451	GTCGGGAGTT	CAAGACCAGC	CTGACCAACA	TGGAGAAACC	CTCTAAAAAT
54501	ACAAAATTAG	CCGACGTGGG	TGGCACATGC	CTGTAATCCC	AGCTACTCGG
54551	GAGGCTGAGG	CAGAAGAATT	GCTTGAACCT	GGGAGGTGGA	GGTTGCGTTG
54601	AGCTGAGATC	ACATCATTGC	ACTCCAGCCT	GGGCAACAAG	AGTGAAACTT
54651	CATCTCAAAA	AAAAAAAAGAA	AAATTTAGTT	CTCTATCAGT	TCAGTTCCAT
54701	GTAGTTAACT	CTTGTTCTGT	TTGATATTGG	GTTAGCAATC	TTACGAACT
54751	GATGAACTTT	TATATTAGAA	TTCTGAAAGT	TTTTACATAA	TCCATTGATA
54801	TGATTTCCAA	AACCTTCAGA	AACTTGATT	CGAGAGTACT	TCTCAGAATC
54851	CTTTTCATGA	ATTTCTTGA	AGGATAAGCA	AATTTTGGAC	TGTAGCTGAT
54901	TATAAAACCAC	TTTTTATGAA	GAATCTAAGT	AAAATAATAA	TTGTCTGTAG
54951	ATGACAAAAG	ACTTAAAGCA	GTCTTAGTTA	AAGACACAAT	TGACCAGGAA
55001	ATTTGGTTAT	GCCTGTAGCA	TACAACAAC	TGACATAACA	ATCGTAATTA
55051	TTACTGATCA	TATATACCAA	AACATATTGG	AACTTTTGGA	ATCTCATTCA
55101	ATTTTGGAAC	AGATATTAAT	CATATTAATA	CATTTATACA	AATATATTCA
55151	AAGAAAGTTA	AACATCATTT	CTTATTTGAC	AATGCTTTCT	GTATGATTTA
55201	AACATATCAA	ATAAGCCTGA	TCTGCCTCTC	TGTAACCTCT	AGGGGACCTC
55251	ATATCTGAAA	AGTTATTTCTG	AGGTAAAAAA	AAAAAAAATA	AAAAAAGGA
55301	CTAAATTTTA	ATTTGAAATA	TGATTTTGGA	AAGTTTGTC	AATATCAAAG
55351	GTTTAAAAAA	CTTACTCAAA	ATATTTTAC	AGGTCACTGT	AAAATAATAG
55401	TCATTTATTT	AGCCAAAGTG	ATAATTCCAA	GATTTCAAAA	GCAAAAACCT
55451	TTACTATTTG	GTAGAAAGGA	GACTGCGTTC	CCAATCAAGA	GACCTAATAG
55501	GGACAGCATG	AGGCAAACTC	TTCCCTCCTT	TTTATAAGGA	ATCTCAGATT
55551	TTACCTTAAA	AAGCCTCTCA	AGGCTAGGTA	TCTTTGAGAG	GTTACCTTTT
55601	TTTTTTCTG	TTTTTCTTTT	TGAAGTTTAA	TCAAAGGCA	AACAAATCTT
55651	TTACTGTCTC	TTATTAATAC	TATATAAAAT	TCTTATTCAA	AGGAGAATGC
55701	CAAATTTATA	TTAGTGTGTT	GTCAATACTA	AAGCTAATTT	TAATTAACA
55751	TTATAAACAA	ATCCATACAA	TCTCAGTCAG	CTTTGACTGC	AGAAGATAAG

FIGURE 3R

55801 ATTTTCATAA ATCTTTTATA ACCTATTACA ATTTTCTATT AAAGAGAAGA
55851 TCAATGTTTC AAGAAAACCC TGTGGTTCCA AAAGAGGGGC CCAGACTCTG
55901 GCCTTGACC AGTGAGCTTT TGAGATTAAT GTTCACTTTT TAGAAAAACT
55951 TATAAACAAAT TCTCTTCTAA TTTTAGCCAA CTTGATCACA CACAAAATTTC
56001 CTTTCACAAG ATTAATCTTC CATAAACCCA CAACCTGCTT AAACCTTCAG
56051 TTTTGTCTA TACTTCTTTT ATTTTGAGAC GGAGTCTCAC TCTGCCCAGC
56101 CTGGAGTGCA GTGGCATGAT CTCGGCTCGC TGCAACCTCC GCCTCCTGGG
56151 TTCAAGCAAT TCTTCTGCCT CAGCCTCCCG AGTAGCTGAA ACTACAGGCA
56201 TGCACCACCA TGCCGGGCTA ATTTTGTAT TTTTAGTACA GACGGGGTTT
56251 CACCATATTG GCCAGGCTGG TATACTTCTT TTTTAGATTG GCATTCTATC
56301 TTAGGACAAA ATCTACTTTC CTTTCTCCCT TATCATTTTG ACCACACAAT
56351 GCTCTCTTTC ATGCAAATGA AAAATTACTG TCATTTCAAC TCCCTTTACC
56401 AAAAACACAT CTTAATTTCT TTATATACCT TATGTATAGA ATTGTCTCTC
56451 TTATATCTAG TCATTTTTTT TTTCTTTTTT CTTTTTTTCT TTTTGAGATG
56501 GAGTCTCACT CTGTGCGACA GACTGGAGTG CAATGGTGCG ATCTTGGCTC
56551 ACTGCAACCT CTGCCTCTG GGTCAAGCA ATTCTCTTGC TTCAGCCTCC
56601 CAAGTAGCTG GGACTACAGG CATGTGCCAC CACACCTGGC TATTTTTTTG
56651 TATTTTTAGG AGAGACAGGG TTTCACTGTG TTTGCCAGGG TGGTCTCGAT
56701 CTCCTGACCG CATGATCTGC CCGCCTCGGC CTCCCAAAGT GCTGGGATAA
56751 CAGGCATGAG CCACCGCGTC TGGCCATATC TAGTCATTTA AATTACATAC
56801 GATAACTACA ATTTTAACTC TTAGGAACGC TAATTTACAG TGAAATCTGA
56851 GGAAGTAATT TTGAGCTGTT TTATGCCAGT ATTTATAGAT GAAAACCATT
56901 TCATAATTTT TATAAAGTTG TTTCTCAAT TATTTTGTTT ATTAACAGAT
56951 CTAAATATAT TTAGCTTTTC TACACCATAT AACTCAGACA TTTTATGGTT
57001 ACACAATGCT TAATTTAACA TGACTTTACG ATTTAGTTAC TGAAAAAGAT
57051 TTTTGAAACT GAAAAGTTCA TTTATACACT TCTATCTCAT TTACATTCAT
57101 TTAATTTAGT TTATTCATTC TTAACAATTA TGCTTGAATA GTTCATTAAA
57151 CAAAAGTAGC CACCATCAAG TTATTTCTTT GTTAATCATT TTTATAGCCT
57201 GCAAATGTCA GGCAGTTGCC ACCTAAGCAA GAACCCGAAA GCTAAACAG
57251 AGATATTTTG CTGATCAGAA GGCACGGTGG CTTTCATTAA ACCAACAGTA
57301 TTAAGTGGTC TTATTTACCG AAGATTTACC CAAGTTATGT GAACTAAAAG
57351 GGATTTGAGT TATTTTCTAT TTTTCTGATA AAATATTTAA GTGTTTCTTT
57401 TCTCTTTTGG CCAATTAGAA CTCATTCATA TATTTTGTGA ATAAATTTTA
57451 CATACACATG ACATGCAGAC ACACACAGGC AGATTTTATA
57501 GCTTTGTAAG TTTCTTCATT TGCCAGTTTT CAATAGTTTC TCTCCCACCT
57551 TTAGACTGTC AAGCCCTAAA CAATTGTTAG CTAGGCAACC TTAAATTTGT
57601 ACTTCTAAAG GGATGACTCT TAGCTGAAAC AAAGTAAAAA AAAATAAAAA
57651 TTACACTTCA AAAACACAGA GCGGAGCTCA AACTAAGGGA GCAGGTGTAT
57701 ATAGGTAAAG GTCCAGTTAA GACAAGATGG CCAAGGAAAG CATCTTAAGT
57751 AAAGGTAGGA CTTGTATAGA TTTAAACCAA TGTTAAATTT CTGATGACTC
57801 AGCTCTCCCT CTCCTCCAGG TGCACAGAGG CAGAAAACCT TACAAATGGA
57851 GATTTCTTTT ATCAATGTAA ATTTCAATAT AGCCAGCTAA ATGCCAGCAA
57901 GGTATATTTT GGAGAACTGT TAGAGGCACT GAATCTGTAT GTGTCTGCAG
57951 CAACTTCAAT TCTTGCTTAC TCTCAAAATA AAAAATTCAT CTGAGGGGCA
58001 TAAGGTAGAA TGAAAGACAG AGGCAATTTT TAGAGCAAAA GGGAAAGTTT
58051 ATTTTAAAAG TTTTAGAGCA GGAATTAAAG GAAGTAAAGT ACACTTGGAA
58101 GAGGGCCAGA TGGGCAGCTT GAGAGATTCA AGCACACGGT TTGACCTTGT
58151 ACTTGGAGTT TTATATGTTG GCAGGCTTCT CGGGGGTTGT TGCTTCTCCC
58201 CTGATTCTTC CTTTGGGGTG GACTGTCCGC ATGTGCAGCA GCCTGCCGGC
58251 ACTTGGGAGA GGCCGCATGT GCAGTGTGTT TACTGAAGTT ATGTGCATGC
58301 TTACTTGAGG CATCTTTTTT TCCTTACCAG TTGACTGTTT CTAGAGGAAG
58351 GTCATATACC AGTTAAACTC TACCATTTTT GCCTCTTAGT GTGCATGCTT
58401 GAGCCTACTC GCCCACCTCC TGAGATCTTA TCAGGAACCT ACTGATCATC
58451 AGTTTCAGGG TTTTTCTATC TACTGGGAGA TTGCCTTTTC CTGGCGCCGG
58501 CTGCAACCAA ATATTATTTG AGAGAGACAG TTTAAACAACC ACCTGACCAT
58551 CACCTAATGG TTGTCTGACA TTCCTTGGTG GAGGTTGGGG GTGATCTCCT
58601 GCCTTGCCCA TGTCTGCCTG CCTACTGTAA CAGACCAACT TAGTTAAATA
58651 GGTGGGCTTT TCAACTTAGT TTGTTTCTTG GTGAGATGAC TGACATCATT
58701 GTGAAGCTCT TTAATGAACA GGGCAAAGAA AGCCTTCTCT ATGCCTGGAC
58751 TCGGCATGGA CAGCTCTGGG AAAGAAGAAA GCCTATTTTA CCTGAGGGCC
58801 TATCTTTTAT AAATATTTTG TTCAAATCTT TTCTTTTAAA ACAAAGGTTT
58851 TTTTCAATG ACTTACCAA CCAATACACC TTAACCAAGG TTATGTCTAA

FIGURE 3S

58901	ACCAAGGATC	AACTAGGCAT	TTCCAAAGAG	TGGCAAAGTA	GTCCTCACAA
58951	GATCCAGAAC	CAAAGACAGC	TCAAAGAAAC	AAATGTCTTG	CTCACTGCAA
59001	ATAGAATACA	ACCCATATTT	CTGTCCAGCC	GTATTTTCAA	GGATCTCAGC
59051	TTCTCTGTTG	AGCACCTACT	CACGGAGGCC	CCAAAGCCCT	ATATGCCCCA
59101	CAGATAGAGA	CAGGAAATCA	AAAGCTGTCT	CTGGAAGGGA	AAAGAATCAA
59151	TAACAAATGG	GTACCTCAGA	AGGTCAAGAG	TTATACAAAT	GATTTTAAAC
59201	AAATAGGACT	GCTTTCTCTGA	CTGGGAATCA	AACCTGGGCT	GCAGTCATGA
59251	AAGCAGAATC	TTAGCTGGTA	GACCACAGAG	TGGAGTGCTT	TTTTGTAAAT
59301	CCTTCAGGAG	ATCCAAGCAG	GCAGTTTGAG	CATATAAAGG	ATTTCAACTC
59351	ATTTTCAGATC	TGATCACAGC	TGGAATGCTG	TTTAGCTAAT	TTCTCTGCATG
59401	TTAATATTTT	AAAGATATGA	TGAGATTTGT	ATCTGCAAGG	GATTGTGAAG
59451	TCCAGCAGGG	CATTTGAAGG	ATATTGTCTG	GGCCGGGCAT	GGTGACTTAA
59501	ATGTGCTGGC	TTAAAATCCC	AGCACTTTGG	GAGGCCAAGG	CGGGTGAATC
59551	ACTTGAGGTC	AGGAGTTTGA	GACCAGTCTG	GTTACATGG	TGAAATCCCA
59601	TCTCTACTAA	AAAATACAAA	AAATTAGCTG	AATGTGGTGG	CACGTGCCTG
59651	TAATCTCAGT	TACTCAGGAG	GCTTAGGCAG	GAGAATTGCT	TGAACCTGGG
59701	AGGTAGAGGC	TGTAGTGAGC	TGAGATCACA	CCACTGCACT	CTATCCTGGT
59751	GACAGAGCAA	GACTCTGTCT	CAAAAAAAAA	AAAAAAAAATA	CTATCTGATG
59801	TTGGGTCAAG	AAATCATCAG	TGTCATTCAT	TAGACCTGGT	ATAGACAAAA
59851	GTTTGTTGGA	TCTGTATTTT	TATAATCTCT	GTAGTATCAT	TCTTGTTCTG
59901	TAGTTGTTTC	ATTTGTTCTC	TCTGTTTAAA	AATTATCTTC	CTAGGAGATG
59951	GATGGGAGCT	GAGGGAATGA	GCAGAAAAGG	ATGAGTTTAG	ATCACAGGAG
60001	TAGGAGGAGA	TGGAGCAGTT	AGAGGTGAAA	GAGAAAACCT	CCAAAATCTT
60051	ATTAAATTTA	GAAATAGTTT	CAACATACT	TTTGTTCACT	TCTTGAATGG
60101	AGGCAATTTT	TTCTTTTAGG	ATTTCTTTTA	GAAACTTGTA	GGTACTATTG
60151	GAAGTAAGTC	TCTCACTCAA	TTTGTTCTA	AACTAGCTT	TTTCTAATTG
60201	TGTGTGCAAA	CAAACATAAT	TAGGTATTTT	AAAAGGTACC	ACATTTTGGC
60251	CATTGTCAGT	TGGAATCATT	CTGAGTTATG	CTCTACTAGT	TTTCTAAATA
60301	TTTGATGAA	GAGGCATGGT	AAGTATTCAG	TATGAATCGA	GCTGGCATT
60351	CTAATGGTGG	ATCTCTTCTT	AAGGAGGAAA	CCTCAGTTTT	AGATAGTTGA
60401	ACTGCCTTCA	GAATCTGGCC	AGTTTTTAAA	ACTACAGTTG	TTTTTTCTTA
60451	AGCCACAAAG	ATTTACTTAT	TTTTCAAGAG	AACTATATT	CTTCTTGCC
60501	AAATTTTGTA	TTAGAGGAAA	GGTTACAAAC	TCTAATGAAT	AAGACAAAGA
60551	AAACCTTAAC	TTCAGAGAAA	AGTGAAAATC	ACAAAACAAA	GTAAATATAA
60601	TCTCTAGAGA	ATAACACATG	AAACTCCTGT	CTTTCAGTAG	AGTTTCAATT
60651	CCAATCCCGC	AGAGTTAAGA	ATGTGTATGG	CTTGAATAAA	GTCTGAATCC
60701	TCAACTAACC	TGGGAGTATT	TGGATACCGA	GATGGCTGCC	AGATCTGGTG
60751	AGGTTGGGTG	AACCAAGCTG	TTGATTCTGG	TACTGTTACA	GGAAAGCAGT
60801	CCTGATCCAT	ACCCCAAGAG	AGGGTCTTGG	GATCTCACGC	AAGAAAAGAT
60851	TGATGGCAAG	TTTGCAAGAT	AAGGTGAAAG	CAAGTTTATT	AAGAAAGTAA
60901	AGGAACAAAA	GAATGGCTAC	TCCATAGACA	GAGCAGCCCT	GAGGACTGCT
60951	GGTTGATCAT	TTTTATGGTT	TTTTTAATAA	TATGCCAAAC	AAGGGGTGGA
61001	TTATTCCTTT	CCCTTTTTFAG	ATCATATAGG	GTAACCTCCT	GACATTGCCA
61051	TGGCATTGTG	AACTGTTCAT	GGTGCTGGTG	GGAGTGATGC	ATTGAGGACG
61101	ACCAGAGATC	ACTCTCATCG	TCATCTTGGT	TTTGGCCGGC	TTCTTTGCCG
61151	CAACTTGTTT	TATCAGGAAG	GTCTTCATGA	CCCGTATCTT	GTGCTGACCT
61201	CCTATCTCAT	CCTGTGACTT	AGAATGCCTT	AACTGTCTGG	AAATGCAGCT
61251	CAGTAGGTTT	CAGCCTCATT	TTACCCAGCT	CCTATTTAAG	ATGGAGTTGC
61301	TCTGGTTCAC	ACGCCTCTGA	CAGTACCAAC	ATTCCAATTG	TCACGAACTT
61351	GAGGGGATCA	CTGAAGCTCC	ACTTTAGATC	CCATCTGGGG	TGGTAAAATG
61401	TCAACGTGAA	ACAAGATTCA	GAAAATATGA	TTAAGTATAG	CATTTATTGG
61451	GGCTCAAAGC	TTGAAAATTG	TTATCCGGGA	GCATAGATT	AAGTTGCCCT
61501	GAATATACTC	CAATTAACAG	CAGCGACAAG	TGGGTTTCTA	CGGAAAAAAG
61551	AAGAGGCAGT	TTCTAACTTG	TTCCGCCAAA	ATTTACGTTA	AAGTAACGTA
61601	AGCTATTGAT	AGGCTACACG	TTATTTCTTG	TATCACAAAT	TCCAGGATCA
61651	CGATGATAAT	GAGCCAGGCA	GCTAGTCAGA	AACAAAATCC	CAGGCATCAG
61701	TGTGGGGATA	TGACTGAAGT	CCCATACTCC	TGTCTCTCTG	GGCCTGACAC
61751	ATTTTGCATA	TTTCATATAG	CTCAGCCTTC	TCTGAGCTAT	TTCTCTCTTC
61801	TCAGTGGCTT	TCCTGGAAGC	AGCCTCCATC	ATATGTGACT	CAGAGTGCTA
61851	GCATTTCTTC	ATGGGTTTAT	AAACCATAAG	AACTCAAGGT	GGCCTTCAGA
61901	GCCACAGCAT	CAACAATATT	AACTTCCCTA	TTAGTAGTGT	TCTATTACTT
61951	TGGGTTTTAC	ATATATTATC	TCATTTATTC	ATCATAACAA	CCTGGTTGAT

FIGURE 3T

62001	AGGGATTATT	ATTCCTGAA	GAACTGAGG	CTCAAAGGAG
62051	CTAAATATT	TTCCTATAGT	CACACAGCTA	GGAAGTGGCA
62101	TCAAACCCAA	GAATCCTGAC	TTCAAAGCCT	CTGCTCTTCC
62151	TACCATCCCT	ATACACATCT	CTGAGACTCC	TGTAAGGAAC
62201	AGGATTTATT	TCATTTATTG	TCTTTCATAT	CCCACAAGAA
62251	GTAAGGCAGG	TATGTCTGTA	TGTTTTTTAT	CACTGCCTCA
62301	TCCACAACAG	TGCCTACCGC	ACAGTAAGTG	CTCGATAAAT
62351	TGAGCATGTG	AATGAATGTG	TGTTAGTGTG	AGGGCTAAGG
62401	CTGGTTAATT	GCCCTTTTTG	CCATTATGCC	AATGTCATTT
62451	AAACATACCC	TCATATAATC	ATATGCACTT	CAGTTTCTTT
62501	GGTTCAGACA	AATCTGAGTT	TGAATTTCTG	TTCCACCACT
62551	GTGAATTTGG	TCAGTTATTG	TTGGTATTTT	ACTTAGTTTC
62601	ATTAGGAATA	ACAGGAATAC	TCATGTCAGT	ACTACTTTGA
62651	TAAGAATATG	TACTTCAAGC	ACCTCACAAA	GTACGTGGTT
62701	GACTTTACAC	AACAACCTGAG	TGACACTTCT	TCTGGCACAG
62751	AAAATTTCCC	CTTCACCCTC	TGAAGGTTCA	CTGAGAATCA
62801	GGCAGATTAA	TAGGAGAAAA	AGCACACAAA	ATTTGTTTGC
62851	TTCACAGATA	GGGGTAGATG	GTTGACACTT	TTATGCCATC
62901	AGAAAGAGCT	TGGAAAAATA	GATTATGGGT	GAAGGGAGAG
62951	CTGGGGCAAA	GGTGGTCCTT	GTTATGTAGA	TGAAATCTCA
63001	CTCTCAGAAA	GAATAGATGA	TAGTCTGTGG	TTGGGAGATC
63051	GAGGTCCTCA	GAGAATGCCT	GGTTGTTTAT	TTCACTAATG
63101	TCCTATAGAT	ACAAATCATC	TCCATGAAAG	GTAGCTTTTC
63151	CTGTGTGCAT	GCCTTCTTCT	GAAGCACCAT	CTCAAGATAT
63201	TGTATTTGGG	GTGAAATATT	TTTGGTTTCC	TTTGCTAGAA
63251	CCTGCTTCCC	CATAGCCAGA	AAAGATTCTT	GAGTGGACAA
63301	ACTTGAACCT	GAGCACTAGA	AAGTCTTTTG	TTTTATTCTA
63351	AATTTAAATC	TAATTTTTTG	AATATAAAAT	AATACATATT
63401	GGAAACACAG	AAAGTTCTAA	TGAAAAAATA	AAAACCTGTA
63451	CAGAAATATC	TGCTGTATTA	GTTTTCCGTT	GCTGCGGTAA
63501	CAAACCTGGT	GGCTTGAGAC	ATCATAGATT	TAGTATCTTA
63551	AGTCAGAAGT	CCAAAATCAG	TCTCCCTAGG	CTAAAATCAA
63601	GGGCTGTGTT	TCTTCCAGAG	CCTCCAGGTG	AGAATCTGTT
63651	TTCTAGCTTC	TTGAGGCTGC	CTGTATTCTC	GGCTTGTGGC
63701	ATCTTCAAAG	CCAGCAGCAT	ACTATCTTCA	AACCTCTCTC
63751	TTCATGTTCT	CCTTATTTCAT	CTTTTAAGGC	CCCTTGTGAT
63801	CTACTTGAT	AATGCAGGAT	CACCTCTCTA	TCTGATGATG
63851	TCCCTTTTGC	CACAAAAGAA	AACATATTTG	CAGGTTCTGG
63901	GTGGACAGCT	TTGGGGAGCC	TTTATTCTGC	TTATTACAAA
63951	ATTTAGTGCA	ATTCATTCCC	ATTGTTTTCC	CTATATTTTT
64001	CACTTTTTAC	TATCTATGCC	ATTCACAAGA	TTGCTTATTT
64051	TTTATTGTAA	TTGTTTTCTG	TTATCAACAT	AAAGTAATCA
64101	AATCTAGTTT	AAAGTGAGTT	TATTCGAGTA	CAAAGTTTGA
64151	CCCAGGAAAC	AGAATTCAG	GAATGGAAGT	CAGAGTTCCA
64201	ATTGGGGATC	ATTTATAGAC	AAAGTTCAGG	GAAGTTTAAAC
64251	CATCTTTCTA	TGTAAGGTTT	AATGCATAGT	TACAACAATC
64301	AAGTGGTCTT	TTTCTTTTGA	GAAATGTATA	TTTAAACATT
64351	GATGTAATTG	TCATGGGGCC	TTGGGCACCA	TCATGTCTGA
64401	AGACTATAGG	GAGGCAGTTA	ATCTATAACA	AAGATCAGTG
64451	GGAGGTCTGG	TCTCTTCTAG	TCATTTATAG	AATAAGAACA
64501	GAGGTAAGCT	ATAATCTAAG	ATGCAGAATT	GCAGACATGC
64551	ACTCAGTTTC	CAGGGCTTAA	CTTCCCCCTT	GTCAAAATCA
64601	TCCTGAAATT	TTATTTTATT	TTATACTTAT	ATTATTA AAC
64651	AGAATGTTTC	ATTGTTGTGG	GGAGAATTCC	TAAATTTCTT
64701	ACTCTTTGTT	TCTTTTCACT	ATATATTTCT	TCCCAGTACA
64751	ACCTAAGTCT	TCTGGGATGG	CAATAGAGAT	GCAATGGAGG
64801	TCCTTTTTAG	AGGAATCTAT	ACAAATTAGA	GCTAGTAAGG
64851	TCATTTTATC	AGGTGCATCA	TCCCTAAACA	TACATACACA
64901	TAATGTAAAA	TCCTGTAAAA	AGAAGACGCT	TCCCAATATT
64951	ATAGACGTGC	TTTTAGATTA	AGAATTAGAT	GCATTATGAC
65001	ATGTAACAAA	CTGCCCAAAA	ACTTATTAAC	TCAAAACAGC
65051	GTCTCATGAT	TCTGTAGATT	GGCCAGGAAG	TTCTTCCAGT

FIGURE 3U

65101 ATGTGAGTCA GTGATTCAAA ACTATCCATC TAGGCCTTGA AGGCGGGGGC
65151 TAGCCTAACC TTTTCTTCT GCCATGAGAC TAACCCTGGC TTCTTCACGT
65201 GCGGGTGGAA GGGTTCCTAA CAGCAACAGC TGACAACTT AATGAGCAAG
65251 CACTTTTTCA GCCTCTGCCA CAGTCACATT TTCTATCCTA TTGGCTAAAG
65301 TAAATCACGA AGTCAGGCTC AGATTCAAGG GGTGTAGAAA TAGGCTCCAC
65351 TTCTGATGAG TGGCACGGCA AAGTCAACAT TGCAAAAAGC CAGGCAGAGA
65401 TATTACTGTG GCCAGTTTTG CAAACAATCC ACCGTAATAC ATAAAATATG
65451 TTTAAGCAGT CCACAAAATG ATCAAGGAAA TGGTAGAAAC TATAAACT
65501 GCAAGAACTC AGAGCCACAT GATGTTATTG AGTCCTTGTA GTGCTCTGAA
65551 AGGGTTCAAG GAAGAAGTTG TTTTGGCATA TGACCCTGAT GAACTTGCAA
65601 AAGTAGAGAA GAAGGGAGCA CAGTTTCTGA AGAAGAACTT AGTAGAGAAG
65651 TGTTATTCTG TGGCCAGTAC GCAGTAATTG TTCCACCTAG AGATGTTGAC
65701 TGACTGATGA ACAGGAAGCT GAGTCTTTAT AATGCAGATA TTCACATATT
65751 CATTTACTCA TCCTTTATTG AAAACAACGC AAGGAGCCAC TAGAAAATTT
65801 AAGCTCAAAA GAACTCACT GGATGGATAT GGGGTAAAGA TTCAGAAGCA
65851 CAGCTGAAGT AGCAGGTTTC ACAAAGATTA GGGACAAAGG GCAATCTGGA
65901 AATCTAGGTA GCAGGAATA TTGAATAGAC TCTTAAGCTG TCTGGGCGGA
65951 CATGAGTCAG CTCCAACCAA TTTTCTAACC TTGTGTCACC CACTCAAGAT
66001 TGAAAGTCCT GGGAGAGAAT CCAACTGGCC TTGCTCAGAA AACATTCCTG
66051 CCCCTTAGCT CAAAGAAAGA ATAAAATAAA TGACTCCTGG ATTGTTAGCC
66101 TAAGCAACTT AGATGATCAT GTCATTCATT TAGATGGGGA GATTGGAGGA
66151 GGAGCAGATT CATTGTGAAA ATCAGGAAAA CTCTTTTAGC TCTGTTAATT
66201 TTGAAGTGCC CCTTAGTAAT TCAGATAGAG CTCTTGAATA GGCAGTAAGT
66251 GAATCTGGAG TTCAAAGGGA AATTCAGGGA GTATAAAGTC CAACAAAACA
66301 AAAATATGGG AATCACTGGC TGTTAGATGC CATTAGACC AGGGACTTGA
66351 AGGGAGCACC TTGGGAAAGA GACTAGATGG AACAGAAAGT CTGAGGACTA
66401 AAGACATTGC TCTCTAATAG TTCTGGTAGA GGAGGAAGAT TCAGGAAACT
66451 AGACAGAAAG ACAACAGTCA TGAAGCTAAT CAACAAGCTA TGGGTAAGTC
66501 AGGGGAGTCT GCCATCCTGG AATCTTCCAG AGAGAAAAGT TTTTCAGAAA
66551 GGAAGGAGGG AAAACCATTT CAGATGCTGC TGCAAGGTCA AGAAGAAGAA
66601 GACAAAAAGA GCAGACCCCT TACTTGAGAA GATAAATATT GTGACCTTGT
66651 CCCAGTGTTT TGGGAGGCTG AGGCAGGAGG ATCACTTGAG GTCAGGAGTT
66701 TGAGGCCAGC CTAGGCAACA TAGTGAGAAC TCATCTCTAC AAAATATAAG
66751 AATAAAATAA TTAGCTGAGT AATCTCAGCT TCTTTGGAGG CTGAGGTGGG
66801 AGGATCCCTT GGGCCAGGAG TTTGAAGTGA TTAAGTCCCT GCACTCCAGC
66851 CTGGGTGACA GGGCAAGACT CTGCTCTAAA AAATAAAAAA AAAAATTA
66901 AAAATATATT GAGATTGTTG CAGAACTTTC TCCTTAGGTC AGCTAAA
66951 GGGCTCTTGT CACATGACCA GGGAAGATTA GGCTTGACAG CACATAGAAG
67001 GGTGAGGAAA ACATTTATTG GGAGAAAAGG AAAAGAAAAG AAAAACCTC
67051 AGCAAAGCGA GAGGGAGTCT TGCCAACAAC CTCCTGCCTC ACAGATAGGT
67101 TACCACACGG AAACCTGAAGA GGCCAGGCTC CTCCCCCTGC AAACAGCGCG
67151 AACTTCCCCT GGCTCCACCC ACTTCCCTCA GTGCGCAAGT GGCATTATT
67201 TAGAGAGAAT GAGCCAGGAA AGCGCGGGCT TCATCCAGGA CCAGCAGTCC
67251 GGTTTTTCAG CCTTCAGGCT GTTTTAGACT TGGAGGCTGG GTTTCTCCGG
67301 GACCTTGGC TGTCTCCTGT CTCTATCAAG ATCTTAATAA GAGCCAACTC
67351 CACATGGTGG GACAAAAGAC CAAAGGGAGT AAAGGGAGAG GCTTAATGAG
67401 AAAATGAGAA ATTAATCAT TTAATGAGTG ATTTTATTTT CCAAGTAGAG
67451 GAGGAGAGGT ACAAATGAG TTTTGAGATT CATGTTGTGA CAGGTAGCAA
67501 TAGTGTCTTG CCATTTCTGT ATTGTATTCC ATTGTATAAA TACTCCATGG
67551 TTCATTTACG TTTTTFACCA TTGATAGGCA TTTGGATCGT TTGCAATTTG
67601 AGACTTTCGC AGAGTACTAC TATTAACATT GTAAACCCTA GGACCCAGTG
67651 ACTCCAAAAT ATGTGTACTT TTGTACACAT GAAAGGAGAG AACAGATCTT
67701 GAGCGTAGTA CTTGATTTTA CGNCGTGTAG ATTAGAGTGC AACAGATCTT
67751 TAGTATACTT TAGCTGAGTA GAGTAGCAGA TAATGCTGGA CGAAGACGAT
67801 TGTCGTGCTC GTGTAGTAAC CTGTTCTAGT CTTGCGTGAG AGCACCTCTC
67851 TAGCCGCTGT GACGTCGTAC CTAGTGTTCA AGTAGCTGAG GAGCAGTGTC
67901 ACAGTAGGAC GTCCGCACCA GAGTTTAGTT CGGGTCGACT ATGATGTATG
67951 TGTACTAGTA GTGTAGTATA GTAGTACACG AGTCGTAGAG GAGTAGCCTT
68001 AGAGANNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
68051 NNNNNATTGG AATCCTCCCC TGTGCTCTAA AGATGTGTAC TTCTTATTTT
68101 TCTACACATA TTTTGGAATA TAACTTAAG AATTAATCA CTGGGTCCTA
68151 GGGTTTACAT AGGTTTAGCT GGCAAACAAT TTTCAAAGA GCTTGTGCCA

FIGURE 3V

68201	GTTTATACTC	ACATCCGCAA	TGTATGAAAA	GTCAAGTTGC	TCCAAAGCAT
68251	CACCAACACT	GGATATTATC	AGTTTATTTA	ACTCTGGGTG	TTCCAGCAAA
68301	TGTGTAATGG	TATCTCCCTG	TGGTTTTAAT	TTGCATTTTT	CTGGTGACTT
68351	ATGAGTTTGG	GCATATTTTT	GCTTATTGAC	CATTTATAAT	CCCTTTGTTG
68401	GGAAGTGCTT	GTTTGACTCT	TTTAACCATC	TTTCTATCGG	TTGCCTCTTT
68451	TTCTTATTGA	TCCATGAAAG	CTCTTTATAT	ATTCTATATA	CAAGTCTTTT
68501	TAAAAGTTTT	TTAAAACTT	TTATTTAGCA	CATACCAAGT	CAGGTGTTGT
68551	TCCAGGTGCT	GAAATGGAGG	AGAAGGAAAT	TTTCAGAAGA	TATGTGGCAA
68601	AGAGAAAAAA	GCGTTAACCT	TTGTGATTTG	TGTTATTTGT	TACTATCAAG
68651	TTGGCAATAA	TAAATATTTA	TTATAATTTG	TAACACATAT	TTAAAAATGA
68701	TTATATATAA	TATTTTATAT	TGTATCATAT	ATAAAAATCAA	CAGATTTTAA
68751	TTAATTCAAA	ATTCAGTATC	TTCACTGACA	TGTGTTAGCT	TCCTAGCACT
68801	GGAATGTCAT	TTGCTTGCTT	ACATATAAAG	GTATAATAAA	ATTTTAAATC
68851	TTCTGCTCAG	ATAAAGAAGT	AGTGAATTAT	CTAAGATGTT	TGGAATGACT
68901	TAACATAAAT	ATTTCTAAAG	GGAAAGGGAT	AAATCACATA	ATTTTTCTGC
68951	ATGGAAACCA	AATAAAACAA	ATAAAAAGAA	AGATGCGTTT	ATCAGTAGGG
69001	AAAGTGCTTA	GAAAAAGTAC	ATATAACTAT	GCCTGACAAT	AGGCATATAG
69051	CCTACATGTA	ATTGATACAT	TTTAGAAGAA	AGTGTGGAAT	CATTTTTAAT
69101	ATTATGTATG	TAGAACTCTA	CCCTGAGTCA	GGAGTTTCTT	GTCATATGTT
69151	GAGGAGGGTA	GAACAGAGTT	ACTAACACTA	AATGAGACAT	TGAATAACCT
69201	ATCTTTTGTT	TTTATGGGTA	AAAAATATAG	CGACCATAAT	ATACCAGAAG
69251	TAAAAGAAAT	ACAAATTAAT	ATCTAATTTA	TTATATATAT	GGAATGAGCT
69301	GTGAAACTTC	ACCAAGAAGT	CTTTCTTTGG	GGCATATAAA	CTATTTGCAC
69351	AATCTCTGAC	CTTCTTTTTT	ACTGCAATAA	TGGTTTTTTT	TTTAAACAATA
69401	AAAAATGTTT	GGACTTAATG	TGGTACAATT	TATCAATCTT	TTTCTTTATG
69451	CGTAGTGATT	TCTGTGTTCT	CTTTAAGAAA	TTTTTGTCTG	GCTGGGGACA
69501	GTGACTCACG	CTTGTAATCC	CAGCACTGTG	GAAGGCCGAG	GCAGGCAGAT
69551	CACCTGAGGC	CAGGAGCTTG	AGACAAGCCT	GGCCAACATG	GTGAAACACC
69601	ATCTCATATTA	AAAATACAAA	TATTAGCCGG	GCGTAATGGC	ACATGCCTGT
69651	AAATCCCAGC	TACTTGGGAA	GCTGAGGCAT	GAGAATCCCA	TGAATCCTAG
69701	AGGTGGAGGT	TGCAGTGTGC	CGAGATCATG	GCGCCAATGC	ACTCCAGGTT
69751	GGGCGACAGA	TCCAGACGCT	GTCTCAAAAA	AAAAAAAAAAAA	AAAAAAAAAAAA
69801	TCTTTGCCTA	TGCCAACGTG	GAGCTATTCT	ATCCTGTTTC	CTAGAAGCTT
69851	CACCTGTTTT	GCTTTACAT	TTAGATCTAC	AGTCTAGGAT	CAAGTTTTAT
69901	TTTGTCTTCA	TATAAATAAG	TAATTGACCC	TTAGCCATTT	GTTGATAAGC
69951	TTTACTTTTC	CTTACGTCAC	CACAGAACCA	CATTTGTTAT	TAATCAAGTC
70001	ACCATCTATG	TATGGGTTTC	CTGACTCTGT	TCCATTGATT	CATTTGTATA
70051	CTCTTGCAATA	TTTATCACTC	TGTTTTAATT	ACTGTAGTTT	TATACTGGAT
70101	TTTCAGTAAT	TCATCTTTGG	ATTATGTTGG	CTACAGTTGG	TTCTTTAAAA
70151	TTCCATATAA	ATTTCATAAG	TAGCTTTTCA	ATTTGTATTT	TAAAGCTGCT
70201	GGTATGTAA	TTGGGTACAT	GGAGTCTATA	GATTAATTCA	GGGATAACTA
70251	ACATCTTTTT	AAAATATCAA	ATTTCCAATT	CATACATTTT	ATATATATAT
70301	ATATATGTGT	GTGTACATGC	ATATACATAT	ATATGCGTAT	ACATTTCTTT
70351	ATTTATGTAG	ATATTCCTTA	ATTTCTCTCT	TTGGTTTTAG	TTTTTCATGT
70401	AGAGGTCTAG	CGTATTTGTC	TTTAGACTGA	TGACTAGGTA	TTTGATAAGA
70451	TTACAAGTGG	TATTATTTAT	CAAAATTGTA	TTTCTTGCTA	GTTTGGTGCT
70501	TATATACTAA	AATACAATTG	ATTATTAATA	TTGACTTTGT	GTTTCAGTGAC
70551	CTGGCTAAAT	TCTCTTATTA	ATTATACTAG	TTGTCCCAT	GGTTTTCTTG
70601	GATTTTCAAT	ATTTACATTC	ATGTGATTTA	CTAATAGTGG	CAGGTTTCATT
70651	TCTTCCCTTT	CAATCTTGCC	TTTTCTTTCC	ATGCATATTG	CACATGCATT
70701	GAGAACAAATG	TTGAATAAAA	GTAGTGATAA	TGGACATCTT	TGTCTCTTTT
70751	TCCCGAGTTC	ACAGGGAAGG	TTTTCAATAT	ATCAAGAGTT	TATAAAATAT
70801	TTGCTGTAGG	CTATTTGTAG	ATATCCTTTA	TCACAATAAG	AAAGTTTCTT
70851	TTCTGTCCTA	AGTCACTAGA	AGTTTTTTTT	TTTTTTAACA	TGAATGAGTA
70901	CAATATTTTA	TCAAATACTT	TTGTTTTACT	GAGGTCATTT	CTATTGTGAG
70951	TGAAGCAAGT	TGATTTGTAA	ATATTAAAGC	AATCTTGATT	TCCAAAAGTA
71001	AATGCTAGTT	GGTCATGTTT	TATTATCCTC	TTGTGTATAT	TACTGGCTAC
71051	AATAAAATAT	TTGTTTTTTA	TATTTTTTAT	ATTATTATTC	ATACATTATT
71101	TATGTATGTT	ATTTATTATT	TATAAATATG	TATTCTATTT	ATATATATTC
71151	CTACATATAT	TTTAGGATGT	ACATAGACAA	GTTTGAATGG	TAACAAGAAT
71201	GAGCCAACCTG	AGAGGAAGAA	ATTGGTAATG	TAGTAAAGAG	CGGGGATGAT
71251	TGCCAAGTCA	GGTCTGACG	GTGGTGAGAT	GAATGTGACT	CAGGGCACAG

FIGURE 3W

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71301 GTGAATGAGC TGACCTTAGG TGGAAAGTGGG GACCCTTCCT TCATGTACTA
71351 GGAGAGAAAG CAGAGTTTGA AGTCTGTATG TGTGTGAGCT GCTGGGCTTC
71401 TCAGAGGGCA GATGAAATAG TTCTTATGCC ATTGCCTGTG TTTTCCCTGT
71451 GGTATATGAG GCCATCCACT GAGAATGAAG GTGGTCAGAG TATAGGAAAT
71501 TTTGAGATGC CGAGAAGATC TGTGAAATTA GTAGAGAATT AGAATAGGAT
71551 TTTCTAAGTA TCCATTTGAG ACTTGTAGTT ATAATTAAAC AAGAATCTAT
71601 CCTGCAGATT TGTATTTTTC TCCTTAGATT GCACTTAATA GATCACCAGT
71651 TCATTTTTGT TGCTGTTTAA AAGCATATTG AGTTTAAAGCA GGATTGGAGT
71701 TTAATTGGGT GAGGTATTCT CACTGTGACT AAGTTTGATG AATTGAAAAG
71751 CGTAGTTGTA GAAAGGAAAC TCAAGAAGGA AATTCTTGGG GAAACTTAAA
71801 GAATCGTATA TATGCAATGT CACTTTTTAA GACAATAAT ATTTTAAAGA
71851 ATTTACTACT TTTGAGGTGC TGTACTAATA TATTACATGT ATAATTTTCA
71901 ATATCTTCAA CTACTAGTTC CTGTAAATAA GTATGCTGAT GATGACACGT
71951 TCCATTTCTT TCGATAGCCA CAAAAACAGG AAGTGATGAC AAAGCTGGAT
72001 TCTAACTCCT GACTCCCAA TTCTCTAAGA CCCTCAGCAT TAACATATAT
72051 TTTATTTTAA TGTTATTATA TATGTATCAT TACTTTTACA ACTCTTAAAC
72101 CAAACATTTT AAAATTAGCT ACAACTGCAA AATCAACTTA AAAATTTCAA
72151 AGAGCCATTT AACATGATAA ATTTAAATAT TTTAGTAAAA CAAAATCACC
72201 ACTGATACTT TAATATTCTT AGGTCTGAGA AAAACCATTA TGTCGTATTA
72251 TTCCTGCGTT CCTGGTAGCG TTTCTACTGC TGGACATCAG AAATAGAGAA
72301 TAGTAGAGCC CCTGAGATAA GAGCAGAGAC AGGGGAAAAG CAAAACATT
72351 CTGAAGAGGC AGTTGGTCTA GTTTGGCTAT AATCACTAGA CGGGTAAAGG
72401 AACATTGGGT GCATTAAAAAG TAGAGAGCCT GGGATGAAGG CGTGAAGGCT
72451 GAGTAAGAAT CTCTTCACTT GGTAGTAATT CTAGTTCATC CCCCTCTGAC
72501 CTGCAATTCT GAACATGGTG TAGCTTGGTC AATAAGGAAA TAAATTGCCT
72551 TTCTGGCTGG AGAGGCAAAAG GGTAACAAT ACATTGTGCC AGCTGAACTT
72601 CCTGTCTCTC CGCTCTGGAG AAGAGCCAGT CACAATGTAT GACTCAGCAC
72651 GCCGGGCACC TCTCCACGC CAGCCAGGCC TGCCCAGCCA CTTGCTGAAT
72701 CACAAGTGGC CATTTCCAAT CCCATCAGTG ACCCAAGCTC TCCAACCTAG
72751 ACTAGTTTCT CTGTGATCGG TCTATGATTG TCATGGAGCA CAAAAAGTAT
72801 TAACTTCTAA CATTTATTTT TCTTTCCTGG ATGCTTGATG AACTTTATAA
72851 GCAAGAGACT GATTTAATTG TTCCTCATTA TCATCTGAGC ATGCCGCTT
72901 GGCTTGCCCT TTTATATGGA GAGCAAAATG TTGTTATTCC CTTTGCCTG
72951 ATTACTGGCT GTATTATTCT CTGAGGTGGC CATCTCAAGA GATTCTGTAG
73001 AAAATAATAA TAGCAAAAT TCTCCCTTGA GAAGCTTCAT AAATTAATC
73051 TCCAGAGCCA GTATATGTAA GCCGACAGAT TATGAAATAT GATTTAATGC
73101 TCTGTCCAGA GAAAGGTCAG GGCTTCAGAA AAATCATCAT AATATCAAGA
73151 AAAACTAATC TGCAACCTGT TATATGATTT TAAAAATCA CCCCCATCT
73201 TTTTACTGT GCAAACCTGA GATTTTGTG TATTTTATT TATTTTATT
73251 TTTATGTCTT GAATCACACA CATATGAGTA TTACTTTCTG TGAAGTTTTC
73301 ATGACCCCTG CAATCAAAC TGGGTCCTTC TGTTAGTTTC TATCACAGTA
73351 TCCTTCACTT TTCTTTCACA ATTCTTGCCA TATTCTATAA CTACATATTT
73401 GTTTGTTAAA TATTTGTTTA TCTTTTATAG ATGATTGGCT TCAGGAAGAG
73451 GGAAACCATG TCCTTTTGT CAGTCCTTTA TTCTCAGCAC CTGCAACAC
73501 ATGAATATAC AAAAAATATT TGTAATGAAT CCATCGAATG AACAAGTGCT
73551 CATTAAAGTAC CAAGCTATAT GCCAGGGGTT GCTGATGGTT AGAAATGAGC
73601 AGGGCACAAA ATTCTTTGTT CAATTAGTGA GCAATTCAGG CAAAAAGAAA
73651 ATATTAATGG TGATTATACA ATATAATGCA ATGCAGCCAT CTGCCACTAG
73701 ATTTACTGAA GTGTTTTGTT TTGTTTTTAA GAGACAGAGT CTTGCTCTGT
73751 CACCCAGACT GGAGTACAGT GGGTAAAATC ATAGCTCACT TCAGTCTCGA
73801 ACTCCTGGGC TCAAGGAATC CTCTCACCTC AACCTCTTAA GTAGCTGGGA
73851 CTACAGGTGC ATGCCACTAT ACTGGCTAAT TAAAAACAG AAGCCAACAA
73901 ACAAAAAACA CACCTTTTTA AGACTGGGTC TCACTATGTT GCCCAGGCTG
73951 GCCTTGAACCT CCTGGCCTCA AGCGATCATC CTGCCTTCCA AAGTGCTACC
74001 TTCTAGAGTA TTGGGATTAC AAGCGTGAGT CATCTGCACC AGGCCTGAAG
74051 CATTCTGTAA TGGAGAAATA CCTGGGTGCT ATGGAAGGGC AGAGGGGGAA
74101 ACACAGAGGA GTAACATCTA GTTTACGTTT GTCAAGGAGA GGCCAGGAAA
74151 GACTAACTAC AGGGGAGATA AACTCCAACC AAGAGTCTTT AAGTCTTCCA
74201 AGACTTACGT ACAAGTTTCT TATTGCTAAA ATGGAAGTTT TAATGAACAT
74251 TTATTTATTT ATTTGAGATG GGGTTTCACT CTTGTTGCCC AGGCTGGTGT
74301 GCAATGGCAC AATCTTGGCT TACTGCAACC TCTGCCCCC AGGTTCAAGT
74351 GATTATCCTG CCTCAGCCTC CAAAGTAGCT GGAATACAGG AGCCTGCCAC

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FIGURE 3X

74401	CATGCCCAGC	TAATTTTTTTT	TTGTATTTGT	AGTAGAGACG	GGGTTTTGCC
74451	ATATTGGCCA	TGCTTGTCTC	AAACTCCTGA	TCTCAGGTGA	TCCACCCACC
74501	TCGGCCTTCC	AAAGTGCTGG	GATTACAGGT	GTGAACCACT	GCCCCCGGCC
74551	TGAACACTTA	CTATAAATAT	TATATGGTAG	TTCTCTCAAA	TTCAATTCTGT
74601	TTACTGCCCA	AAAGAGCTAC	ATAAAATTCTA	AGTTGTCCAC	ATTTATGAAT
74651	TTTAGATATA	TGGCTGTTTA	TTCTGGATAA	ACACACAAAA	TACACAAGAG
74701	TGGGTGCGAT	CACCTATATG	TGTTAAAGAA	GGCATTCAAG	GTGCATTTTT
74751	TCTTTGGA	AGCTTTGTAA	GGCTGCTTAT	GAGACAGAGA	AGTAAGTATT
74801	TTATAAATTC	CAAAGCTTCT	TGGTCTATTG	ATGAGTTTTT	CTGCTGTAA
74851	AAACCTCTGA	AAATTTGACA	ACGTACTCTA	GAGAGAGAAA	GCGCTGAAAT
74901	AGGCACTGAC	GTACTGCTGG	TGGCAATTCA	AAATGATATG	CACCTATGG
74951	AGATAAATTT	GGCAATATCA	AGCAAACATT	ACATATACCT	TTGCCCTTG
75001	TTTTGACAAA	TCTTTGTTTT	AGCAAACCCT	CTTCTATACA	TCTATAATGA
75051	CATTAGACTG	CCCAGAATAC	AAGAAGGCAA	CCACAGTGGG	CCAGTACTAC
75101	TACTGGGCTA	GATGTGGTGG	CTCACACCTG	TAACCACAAC	ATTTTGGGAG
75151	GCTAAGGTAG	GAAGGCTGCT	TGAGGCCAGC	CTGGGCAACA	TAGTGAGACC
75201	TCATCTCTAC	AAAAAAAAAA	AAAAAAAAAA	AATTAGCCAG	TCATGGTGGT
75251	ACATGCCTGT	AGTCTCAGCT	ACTCAGGAGG	CTGAGATGGA	AGGACAGGTT
75301	GAGCCTTGGA	AGTGGAGGCT	GCGGGGA	ATGAATATGC	CACAGCACTC
75351	CAGCCTGTGC	TACAGAGAGA	GACTCCGTCT	TAAAAACAA	AACAAAAATA
75401	CAACAACAAC	AAACAAAGAT	AGATGCATAG	AGTTTTTCAC	TGTTGCACTA
75451	TTTATATTAG	CCAAAAACCG	GGAAACAACC	TGAATATTCA	TCAAGTGGGG
75501	ACAGGTTGAG	TAATCATGTG	ACATACATAA	ATTGCAGCAC	TGCACACTTG
75551	AGAAAAGAG	TGAGAAATGT	CTCTATTTCC	TAGTGTGGTT	TGCTCTCCAG
75601	AGTATACTGT	TAAGTGAAAA	AAGCACTGTG	GCCTCAAATT	TATCTATAGA
75651	TTCTATACAA	TCCCCATCAA	AATCTCAGCT	GGCTTCTTTG	CAGAAATTCA
75701	CAAGCTGATC	TAAAAATGTG	TATAGAAATC	CAAGGGACTC	AAAATTCAAT
75751	AAATTCAAAG	ACTAGCCAAA	ACAATCTTGA	AAAAGAAGAG	CAAAGTTGGA
75801	GGGCTCATAC	TTTTCAGTTT	CGAAAGTTGT	TATGAAGCTA	CAATAATCAA
75851	GATAGGGTGG	TCCTGGCATA	AGGATAAACA	TGGAACAGAA	TTGAGCATCT
75901	AAAAATAAAG	CCTCATATTT	CCAGTCAATT	GACTTTTAA	CAGGGTGCCA
75951	AGAAAATTCA	ATGGGGGAAG	AATTTGTCTT	TTCAACAAC	GGTGCTGGGA
76001	CAACTGTATA	TCCAAATGTA	AAAGAATGAA	ATTGGAACCC	TACCTCACAC
76051	CATGTACAAA	ATTAGCTCAA	AATGGAAAA	AGAGGTAAAT	ATAAGAACTT
76101	AATGTATAAA	ATTCTTCGAA	GAAAAACAG	AAGTAGATGA	TCAAGACCTT
76151	GTAATCACTA	ATTGTTCTCT	AGATATGACC	CCAAAAGAAC	AAGTACTAAA
76201	AAAAAAGTA	GACAAATTGG	ACACCATCAA	AATTGAAAC	TTTTATGCTT
76251	TTTATACTTC	AAAGTCACTA	TCAAAAAAGT	GAAAAAGTAC	CCCAGAGAAT
76301	GGGGAGAAAA	TATTTGCAAA	TCATATATCT	ACTAAAGGAT	GTGCATTTAC
76351	AATATACAAA	GGGGCCAGGC	GCTGTGGCTC	ATGCCTGTAA	TCCCAGCAAA
76401	TCGGGAGGCC	AAGGTGGGTG	GATCACCTGA	GGTCAGGAGT	TCAAGACCAG
76451	CCTGATCAAC	ATGGTGAAAC	CCTGTCTCTA	CTAAAAATAT	AAAAATTAGC
76501	TGGGTGTGGT	GTCAGGTACC	TGTATCCCCA	GCTACTTGGG	AGGCTGAGGC
76551	AGGAGAATCA	CTTGAACCTG	GGAGGTAGAG	GTTGCAGGGC	GTGGAGATTG
76601	TGCCATTGCA	CTCCAGCCTG	GGCAACAAGA	GCGAACTCC	ATATCAAAAA
76651	AAACAAAAAA	AAACAAAAAA	AAACAAAAAA	AAAAAAGAA	CAAAGATTTT
76701	TTCCAAGTCA	ATAATAAAAA	CAGAAAATGC	AATTTAAAAA	TGGATAAAGA
76751	ATCTGAGTAG	TTTTACATTA	AAAGATAAAT	AAATGGTCAG	TGAGCACTTC
76801	AAAAGATCCT	GAGCATTACT	AAACATTAGA	GAAATGCAAA	TCAAAATCAC
76851	AATGAGATGT	CATTTTCATAC	CTATTGCTTT	CTTTTCTTTT	TTTTTTTTTT
76901	TTGAGACAGA	ATCTTGCTCT	ATCTTCCAGG	CTGGAGTGCA	GTGTGTGTGA
76951	TCATGAAAAT	GGCTCACTGC	AGCCTCAACA	TCCTGGGCTC	AAGTCATCCT
77001	CCTGCCTCAG	CCTCTTGAGT	AGCTGGGACT	GCAGGCATGT	GCCACCGCAC
77051	CAGACAATTT	TTTTTTTCTT	TTGTAGACAC	AGTGTCTCAC	TATGTTGCCC
77101	AGGCTGGTCT	GAAACTCCTG	GGTTGAAGCA	ATCTTTCTGC	CTCAGCCCCC
77151	CAAAGTGCTG	TAAGTATAGG	TGTGAGCCAC	CACACTGGGC	CAGTACTATT
77201	CTTTAAAAAA	TGGGAAATAA	CAAGTGTTGG	AGAGGATGTA	GAGAACTGG
77251	AGCCTTTGTA	CATTGATAGT	GGGAATGTAA	TGTGGTACAG	CCACTGAAGA
77301	AAACAGTTGG	ACAGTTCTTC	AAAAAGTTAA	ACATAGAGTT	TCCATTTGAT
77351	CCAACAATTC	CGTTACTCAA	TATTTACTCA	AAATAATTGA	AAGCAGGGAC
77401	TCAAATAGAT	ACTTGACAC	CAGTGTTTCA	AGCAGCATTA	TTCATAATAG
77451	TCAAAGGTA	GAAATAACCC	GAATGTCCAT	CAACAGATGA	ATGGATAAAC

FIGURE 3Y

77501	ACCACATAGT	ATGTGCCTAT	GATGGAATAT	TACTCAGCCT	TATAAAGGAG
77551	TAAAATTCTG	ATATACACTA	CAACATGGAT	GAACCTTGAA	ATCTTATAAT
77601	AAATGAAATA	ATCCAGACAC	AAAAGGACCA	ATATTATATG	ATTCCACTTA
77651	GATGAGATGC	CTAGAACAGA	CAAATTCATA	GAAACAGAAA	ATAAAAATAGA
77701	GGTTACCAGG	AGTTGGAGAG	GAGGAATAAG	GAGTTATTAT	TAAATGGGTA
77751	TAGAGTTTCT	GTTAGCAATG	ATGAAAATGT	TCTAAAAATG	GACAGTGGTG
77801	ATGGTTGTAG	AACATTCTGA	ACGTACATAG	TGCCACTGAA	TTGTACTTAA
77851	AGTGGTTAAA	ATGATAAATT	ATATGATATG	TATATTTTAC	CACAATAGAA
77901	AAAAATACAA	GAAGTTACCA	GTGGGGAAAA	GGAGGGATTA	CAGAAGACAG
77951	GGATAACAGC	ACGACTTTTC	TCAGTATACC	TTGTTTTTCG	TATTTGACTT
78001	TGAAAATATG	TACATACTTT	ATATAACTAG	AAAAACAAAT	TAAATCTTAA
78051	AACAATCCCA	AAAATGGAAT	GTAAAAAATA	TGAAACCAAT	TAATCTAAGT
78101	ATATATCCAG	TTTGTGGCAT	AACCACACAA	AAATGAACTA	TTCCAAGTGA
78151	CTTTTGAACA	GAAAATTACT	ATATACCATC	AGTAGAATAT	ATCCTAATAA
78201	CAAGAAAGAA	CAGCAAAAAT	ATCTTAAAGT	GTTTTTCAGTA	ATGGCATTGT
78251	TGGGGGTAAT	GTTGATACTG	TTATTTTGAA	AGTGTGAGT	GTATACAGTG
78301	GGATAGAACC	AACAAGTATT	TATAATGATA	TCATTGAGAA	CCAAGATTTT
78351	CATTGAGGGA	GAAGACTGAT	GAAGTTAAGA	ATTTCTGTAA	TCTTGAATGT
78401	AAACTGAAAG	CATTATTATG	AAATGTGTGA	TGTGTTTATC	TTAGTTTACC
78451	TTTGAATATG	TGTATATTTA	TAACATATA	TCTATAGCAG	CAGACACTTC
78501	TGTCACCCAG	ATTGTCTGAA	ACAGGAAATA	TACAAGATAG	CCAGCAATAT
78551	GTTTTTCATAT	TCTACAGTTA	CAAAGCTGTC	AAAACTTACT	AGGGTTATGT
78601	CAAAACAAAC	ATGATCTAAC	ATGACTATGT	TCCTACTGGC	TGAAGAATGA
78651	ACATTATGAA	CTGAACATCA	ATAAGAATAA	TGACATCAAA	CCCAGGAGTT
78701	CATTATAATA	TATTTTAAAG	TATATTGATT	GCTTTTGGAG	GGTTCTAGGA
78751	AACAAACAAA	TCATTTTGAA	AAGTGGTAAA	TAAAGGAAAG	ACTTCAGTTC
78801	AAGACCAGTC	TGAGCAACAT	AGTAAGACCC	CATCTCTACA	AAAAATTAAA
78851	ATATCAGCTG	AGCATTGTGG	TGTACATCTT	TAGTCCTAGC	CACTTGAAGG
78901	CTGAGGCTGG	AGGATTGCCT	GAGCCCAGGA	GTTCAAGGCT	GCAGTGAAGT
78951	ATGATGGCAC	CACTGTGGTC	CAGCCAGGGT	TAAATAGCAA	GACCCTGTTT
79001	CTGGCGAAAA	AAAAAAAAAA	AAAAAAAAAG	AAGACTTAAA	CATACCTTTC
79051	CTATATGAAC	TGTGCCTCGG	AGTAACTAAA	TAATTGATTA	AAGCAAGTTT
79101	CTCTGTATAA	AAGTACTCCA	GCTAAAACAT	TAAGGAGAAA	TGATAGAATT
79151	CAAAATACAC	AACCCCTAAG	GAATTTTTCG	ATCAAGACAA	CAATAATTAA
79201	TGACTGATAA	CACCACACAC	AGAATACAGA	CTTATTAATT	GTATAACTCC
79251	TGATCAAGTG	CATACCACTA	TCTGTGAAAT	AGTTTTGCCA	AAAAAAAAAA
79301	AAAAAATCTA	ACCTAAACTT	GAACAAGCCT	CTAGATCTAA	CCACCAATTT
79351	TTACAAACTA	CAAAGAATTG	TGGAATGTAT	AGATTGACGT	GACATGAAGG
79401	CAATCGGCAA	AGTCCAGACT	GTGAAAATAC	TACAGCAAAC	ATTTAGGGTC
79451	TTTTTTTCTT	TTTTTTTCTT	TTTTTTTTTT	TTTTTTTTTT	TTTTGAGAGA
79501	GTCTCCCTCT	GTTTCCCAGG	CTAGAGTGCA	GTGGTGTGAT	CTCGGCTCAC
79551	TGCAACCTCC	GCCGCCCAGG	TTCAAGTGAT	TCTCCTACCT	CAGCCTCCTG
79601	AGTAGCTGAG	ATTATAGGTG	CGCGCCACCA	TGCCCAGCTA	ATTTTTGTAT
79651	TTTTAGTAGA	GACGGGTTTC	ACCATGTTGG	TAAGCCTGGT	CTCAAACTCC
79701	TGACCTCGTG	ATCCACCCGC	TTCAGCCTCC	CAAAGTGCTG	GGATTGCAGG
79751	CGTGAGCCAC	TGCACCCAGC	CCACCCTTGG	TTTTTTTCAA	CAAAAAATTA
79801	CTAGAAATAA	AAGAATAATA	GTTGGTCAAG	GAAGCTGTAG	AATAAGAAAG
79851	ACTGCCACAT	ACATCAATGG	CAGTGGGCGG	GCTTTGTTTG	AATCCAACCTC
79901	TAGCATGCAA	ACATTTTGATA	AAAATTTCTT	TATTTAAAAA	GAAAAGTTTA
79951	CAAAACAATC	AGAAAAAATA	AAAAAGATTG	AGGATCTCAG	GACAACTACT
80001	AGCCTAGATA	ATTTATAAAG	ATTAGATAAC	TGACTCATTT	TTATTAGTTT
80051	CTTTCTTAAT	AAGGCAATAT	GTATTAGATA	TATCAGAGTA	GAAGGAAATA
80101	TTTTTCTTAC	ATCTATTTGG	CTTTTAAAT	ATAAACATAT	ATAAGTAAAA
80151	ACCAAAATGA	TTTATAATCC	CACCATTTAT	GTAACATATCT	TATTTTCAAA
80201	AAAAATTATG	CAAATACTAG	CATTTGTGTG	CTTTTTTCC	TTTTGTGTTT
80251	GTGTGTTTAT	ATCCTTTTTA	AATATATCCT	TTTTATGTAC	CTAAGCAGCT
80301	GTATACTATA	CTGATACTA	TAGTGTGAAC	TTTGTTCTTT	TCCTTCGTCT
80351	TTACAACATA	TTGTGGAAAA	CGTTCCATAT	CAGAATATAG	ATATGCCTTT
80401	TTGTAGCCAT	TGAAATGCAA	AGAAAAAAG	AATATAGATC	TGTCTCATTT
80451	TTTAAAAATG	CTGTATAATC	TGTAGCACGA	ATTTACTATA	ATTTATTCGC
80501	ATGCTCCCTT	ATCGATGGGC	ATGTAAATTG	TGTTAATTTT	ATATGATATA
80551	ATGAGTATCC	TTATATGTAT	ATCTTGGCAC	AGTTTTTCGA	GTGTATCCAT

FIGURE 3Z

80601	AAAGTTTCTT	GCAATGAAAT	TATAGGGCAA	CAAGGGTGTG	GTGGCTCTTG
80651	TCTGTAATTT	CAACACTTTG	AGAGGCTACG	GCAGGAGGAT	TACTTGAGGC
80701	CAGGAGTTTG	AGACCAGCGT	GGACAACATA	GTGAGCCCTC	ACCTCTACTA
80751	AAAATTAATA	AAAAAAAAAA	GAAAAAGTTT	GGTATGGTGA	TATGTACCTG
80801	TAGTCCCAGA	TACCCAGGAG	GCTGAGGTGG	GAGGATCATT	TGAACCTGGG
80851	ATGTCAAGGC	TACAGTGAGC	TATGACTGTG	CCACTGCACT	GCAGCCTGGA
80901	TGACACAGTG	AGACCCTGTC	TCAAAAAAAAA	AAAAAAAAAAT	TACAGGCCAA
80951	ATCCATATGC	TTTTAAAGGA	TATTTTTTGAA	TTGTTCTCAA	AAAGAGGCTT
81001	CACCAAATTA	CCATCCAGGG	TATACAAGAT	ACCCATTTCT	CCATGTCCTT
81051	ACCAACAGTG	GCTCTCATCA	AGCCTTGGTG	GAAATGCTCT	CATACTGATA
81101	CTTTAACGAC	TAAAAGTCAT	GACATATCTG	CTTAGGTTGT	AAATTGCCTC
81151	CCTCTAAACT	TATACAGAGA	GAATTTAGAG	TGTTGTCTCA	GCTTGGTTCC
81201	AGTGTTATCC	AAGCCATTAA	CCTTTGTTTT	GCCTTAGATT	GTCACATTGT
81251	GGTATTTTCA	TTAAAAAACA	AAAACACAAC	TGGTACTTTT	TTTTTTTTTT
81301	TTTTTTTGAG	ACGGAGTCTC	GCTGTGTCGC	CCAGGCTGGA	GTGCAGTGGC
81351	GTGATCTTGG	CTCACTGCAA	GCTCCGCCTC	CTGGGTTCAA	GCCATTCTCC
81401	TGCTCAGAAT	TCCCGAGTAG	CTGGACCTAC	GGGTGCATGC	CACCACCCCC
81451	GGCTAATTTT	TTGTATTTTT	AGTAGAGACA	GGGTTTCACC	ATGTTAGCCA
81501	GGATGGTCTC	GGTCTCCTGA	CCTCGTGATC	CGCCCGCCTC	GGCCTCCCAA
81551	AGTGCTGGGA	TTACAGGCAT	GAGCCACTGT	GCCTGGCCAC	AATGGGGTAT
81601	TGTTTTTATA	GACTGTTGAA	ATCTGCCTTT	GGAAACCATG	GGTTTGCTGT
81651	GTTGTTATGG	TGAATGAATT	AGGTGCACAA	TACTAGTTTT	TAAAAAATGA
81701	ACTTCACACT	AGGTACACCT	TGAAAAATTA	TTCCAGAGCT	ATAAGAAGAG
81751	CTATAAGAAG	AAAAATATGA	TGGGTCATTG	CTCCAAAGAA	AGGTTTTAAA
81801	ATGTAAATTT	GTACTTAATG	AATAGGACAG	TGTACCCTAA	CCTCCTCCTT
81851	GCTATTCTTC	AGGGATCTCT	TCTAACAAGG	GCTAATGCTT	CACCTAAGCT
81901	GTGAAAAGCC	TGCTGTGAGC	ACTCCCTGTT	CAGGGTCAGA	AAAACACAAT
81951	GAAGTGTCT	ATCATTTTAG	GTTCTAGGAC	AATGTTCTCT	TGCTTTTCTT
82001	TGCTCAGAAT	GGACCCTTGC	TGGGGTAGCA	TCAGAATGAG	GATCTGGTGC
82051	AACAGTTCTG	CAATAGGAAG	TAGGTTCCCC	TACTATCATG	GTTTTCAAGC
82101	TTTTTTGACT	GCAGCCCAT	ACGAGAAATA	ATGTTTTTCA	TCATAACCCA
82151	GTAGATATAC	TCACAGAGAC	ACAGTATATT	CATAAAAAAA	ATCATAACGT
82201	TTAACCTTAT	GTTAATAGCA	TTTATCCTAT	GTTATTCAAT	CTATTTTATT
82251	TCTTTTTTAA	AAATGCTCAT	CACAGTTAAC	TAAACTGATT	TCACAACTCC
82301	TTAAAGGAAT	TTGACTCACA	ATTTGAAAAA	CACTGCATTG	TAGAATATTT
82351	TAGAGTCTCT	TCCCAACCCT	CAGAGTCAGA	TTTATTTCAA	GATGGCCCCCT
82401	GTAAGACAGC	TTCAAGCTTG	TGAGTGACTT	TCTTTTTTCT	TTTTACTTCT
82451	TTACCATTTA	CCATGACTCC	CAAATAAGTG	ACTCTTTTGG	CTTATTTGGT
82501	AACCATGCTA	ATTTCTACAC	ATAGAACCTA	GAGCATTTAC	ATAAGACCCA
82551	CCCAAAGCTT	GTGTTTTAAC	CTTGCTTCTC	TCTTTTCTTT	CTTTGATTCA
82601	TTGATTATGT	TTTCTATTGC	TATCTGTTCA	ATCTGTGTTT	CAGGCAGTGT
82651	ACAGGTACTG	AGGCAACAAT	GGTGAGTAAA	AGCAAGCATG	CATCCTGAGA
82701	TATACTGGGA	ATGAAAGAAG	CTAATCCAAA	AGCATACAGG	AAAATATTTT
82751	CAAACTTTGA	TAAATTTCTGT	GTAAGCATAT	GGCATTGCAC	GTAACAGGGG
82801	AACCGCATT	AATATGGAGT	GTTGGAAAAG	GCTTCTGTGA	GAAGTGACAC
82851	TTGAGCTAAG	ACTAGAAAAG	TGAAAAGAAT	ATAACCAGGT	ACTGGACAGC
82901	ATCATGAGTG	CAGGCACAGG	TGACATCGTA	TCACAAGCTT	CTAAGGCTGA
82951	AGGGGGCGTG	AATTGCTAGC	TGGAGAGTGG	AAGGAAAAGA	TCTTCAAGAT
83001	AAAGCTGGAA	AAATAAACAG	GGCCAGGCCT	CATAGGTTTC	TGTAGACCAT
83051	GGAAAGAGGT	GAAGGTTATT	TTGAGCCTGG	ATGACATGAT	AAAACTCACA
83101	TTGTAAAAAT	ATAACTGCAA	GGTAGAGAAT	GGATTGAAGA	GGTCCAAGAT
83151	TACGCAGACA	GAGCTATGAA	CAGCCTATTG	CAATGGTCTG	GGTCAAGCAT
83201	GATGGAGTAG	GGTTGGAATA	GGGTGGTGAA	CTTTTATTAG	TTATCTTCTT
83251	TACTGAGCAC	ACTTTGCAAT	GAATTTCAAA	TGCACTGGGA	CCAGACTTGT
83301	TAATTTTGGA	GCTGTGCACT	AACAAATAAG	TAAGCCATGA	TAACCCACCA
83351	AAGAAAGTTG	CAGAAATGCA	AGAGCAAGGC	TGTGATGAAT	GGTTGAGGTA
83401	CAAGGAAGCT	CTTACTCACT	CATTTTAAAA	AATCAGATGA	TATGAAGTTG
83451	AATATTCAAG	ATATTGCCCA	ATTGTGTTAT	GTTACATAT	TTTACTGGGC
83501	ATAGTTCTGG	ATAATAAAAT	ATTTATCTTC	TCTCCCTCTG	AGAATTAATA
83551	ATCTGAGATG	GAGGCCTCTG	ATGTGCCAAA	GGAGAAAGAT	GATTTTAAAG
83601	AGCCAAACGT	GCCTCCATGA	TTAAATACAT	TTATATTTCT	ACTGGCCAAG
83651	GAAAGCATGT	TGCCTCTTGC	CTGGGCCTCT	TCTGTCTTTG	ATTAATAATC

FIGURE 3AA

83701	CCCTGCACAT	TCGAACACTG	TTATTAACCT	GCCACATTGG	CACCTTTATC
83751	ACTTTGTTCT	TTGAATAAAA	AGAGCTTAAC	CCAAGTCCCA	GTAAAAATGT
83801	TCATTACAGC	TGAATTTAAG	AAATATATTC	TGCTCCCTTG	GAGTTAAATG
83851	GAATAATAGG	AGAAGAGTCC	ACTTGACTGT	TACCAGGTTT	CTGAACTACA
83901	CCTGGCAGCC	TAACATAGTC	AACAGCAGGG	AGTGAATCAC	ATCTGCTCTG
83951	TATGCTAACC	CGGTCTGAGT	AGGTGGTTTG	CATTGGCATC	TAATTATTTT
84001	TATGGTTAGT	ACTCTCTTCT	CCTGACTTTT	GGTACCAAAC	CCTCACACAC
84051	CTCATTATCC	CTATTGCATC	TGCCACTCAT	CCTAAAAGGC	CTTGCTTACA
84101	TCCCACAATC	AATCATTCTT	TCTCTTACCT	TAGCGGAGAA	CAGCCTGAGG
84151	TGCAGCAGGT	CCCAGATATG	ATTACAGTTT	CACCAGTTCA	ATATTGTTTA
84201	CTGAATGGCC	TGTA AAAACAC	AGTGAATATA	ATTTGTGTTG	CTGCAGTTGG
84251	AAGGCTTACA	TACCACATTG	CCTAGAACCA	AAGACCTTTC	CTCATGCCCA
84301	ATACACCAAT	GGCAGAGATG	ACCAGCCAGT	CACTGCATCG	AGATGAAGAA
84351	TAGTATCTCC	CAAAAGGCAA	TACCAAGCAT	ATGTTTCTCA	GGCTTTTACA
84401	AAACACTTTT	TAAGTTTCTG	TCTAAACTCC	TCTAAGAGCT	AAATTTTTCC
84451	AAGACGTATT	CTGTGTAAAT	CAGTCTTCAG	TGATAAACAA	AATTTTATTT
84501	ATTGAACAT	CAGGTGCTAT	TAATGCTAAT	TAGAATGTTA	CCACCTCAGA
84551	TTAATGCTTC	GTTGAATTTT	TTTTTTTTCT	GGTGTGTTGA	AGTATTCCTT
84601	TTCTCCTTCA	GCACAATGAT	AATTATAAAG	AAGAAAAATG	ACTAAGTGCA
84651	TTTCTCCCAT	CATTTGATAT	TTTACATTTA	TTTCCTCAGC	AAATAATTTG
84701	TCACAAGGAA	GTAATGTGCA	TCCCTGGGCA	CTGCTTGCG	GCACCTTAAT
84751	CTTGATTCAA	ATGAACTTTT	AAAATGTTTT	ATCCATGATG	TTATGTCTAA
84801	AGAAACATGT	CAAAGAAACA	TGTCAGAGAA	CTTGACTTTG	AATAGAAATC
84851	ATGGCTGTGC	TTTGAGGGAA	ACAAAATAAA	TCACAGAGGT	AGGAATGCAT
84901	AGTTACAAGC	TACTGTTTGT	ACACAGCAGA	GACCAATTCT	ACTCTCTGTT
84951	CTCATTTCTT	CTTCTAATTC	CTCATCCCTA	CACTCCTTCC	TGTGTGAAGC
85001	CCATGTCTGA	TCCTGCCTAA	TTCAGTGACT	GGGGGTCACT	GCAGATGCGT
85051	GCACAGGGTC	CTGTTATGGG	ATCCGGATTG	TGCCGCCTTC	TCCAGACACA
85101	AGTTTCCCCT	CATACCTGTT	GTTCCAGCAA	ATCCAAGCTA	TTCTCCTTTC
85151	CCCACCTGCA	CTAGGTCTCT	TCCCTAGTCT	GTGCTTGCAT	GCATCCTATT
85201	TTTCTCTGGT	ATTTTTCAAA	TTTTACTTTG	GCACCTGGAG	AACGTTTTGG
85251	CACCACCATT	TGTCAGGTGT	TTAACTTTGT	GCATTTCTCT	GTGTGAATGG
85301	GAGCGTAGGT	CCAGCATCGT	GAGGAAGGAC	TGGGGTCACA	CTCACAGAGT
85351	GTGTCAGAGC	CCACAAAGTC	ACTCAGTAGA	AACATCAGGA	GATGTTAGCG
85401	TTATTTTTC	GTTATTACTA	TGATCACCAT	TCCTCAAAAT	TGAGCTCTGG
85451	TTTTACCTCT	CCTGACAAGC	TTTCCTTTAC	TTCCCCATCC	CAAAGACAGA
85501	GTGAATTACT	TCCTTGACT	GTGTGCTTAG	TTCTTCATTG	CCCTTCTTAT
85551	GTGTTTTCTT	TATCATTAAT	GTGGGACATG	ATCTGTTATA	ATGTTGCTGG
85601	GCAATGATGT	TGTTAGTATA	GAAAAATGGG	CATGAGGATA	GTTCAAGGAG
85651	TTCCCATAAC	TCATATTTTA	TGGGCCTTCT	GCAATATATG	GTTAGGATAC
85701	AACCATTAGC	AATAAATGGA	TAACCTGGGT	TCTCTTCATT	TTCTGTGTTT
85751	TATTGCTACA	TGAATAAACA	GTTATTGAGT	GCTTACTGTA	TGTCAAGCAT
85801	GACAATAAGT	ATTATAATTA	CCCTGTTTAT	TCATCAGTAT	GATCAAATGT
85851	GGTTATTATT	CCCATGTGAC	CCATGAGGAA	ACTAAAGGCC	TAAGGTGATA
85901	GAGCTAGTGA	TAGACCACCT	ACTCCCAAAG	TCTGAGCTCT	TAGCTCAAGA
85951	ACACTCTGCT	CTGATCTGTA	GGGTCTCATT	TGTCTCTGAG	ACTCTTTAAT
86001	GTGTAAATAT	ATTTGATAAG	TTTTCTCTTC	TAATGTAATT	CCAGGTATTC
86051	CTTCCAAGAT	GAGGAAGACA	TGTTTCATGGT	GGTGGACCTC	CTGCTGGGTG
86101	GAGACCTGCG	TTATCACCTG	CAACAGAACG	TCCACTTCAA	GGAAGAAACA
86151	GTGAAGCTCT	TCATCTGTGA	GCTGGTCATG	GCCCTGGACT	ACCTGCAGAA
86201	CCAGCGCATC	ATTCACAGGT	CAGTCAAGTC	CAAGGAGATG	GCCATGAACG
86251	TAACGCAAGG	AGAGAATCCA	CAACTGGCTA	CCTTCAATAA	ATTCTTATTG
86301	AACATGACAT	TTAATCCCCG	TTTAATTCTT	GAAACAGTAC	CCTGAGGTAG
86351	GTTGATTGTC	TTCATTTTGC	AGATTTTGTA	AAAGACTGAA	CACATAGAGC
86401	TTAATTTGCC	AAAGGTCACA	GTAAACAACA	AGATCACAAT	CAATGAATTT
86451	TGGTACTATT	TTATAACTAA	GCTTAGACAA	AAAGGAGAAA	AGGTGACATA
86501	TAGAAACCTA	ATAAATATTA	AGTAAATAAT	TAAATGGAGG	TAGCACATGG
86551	AGGGAAAGAA	ATAGAATGAA	AAGAAAGAAA	GTTCTTTGGG	AAAAAAGCTT
86601	GAGTCTTTCT	AATATTTGCT	GTCCTGCAGT	CTATATTTAA	TTAATCCCTA
86651	ATGTATGTAC	TGCAAATGGA	GGTAGAAAAA	GCAATAGCAA	TGTCTTCTGC
86701	ATTTAGAGCA	TTAGTAGTAA	ATAAAGACAT	ACAAATAACA	TAAGAAACCA
86751	TAAAGCTATA	GAGATAATAC	AGAGAAAAGG	ATAATACTTT	ATAGTAAAGA

FIGURE 3BB

86801	AATTTGTAGT	TTCAATGATG	ATTTTATATA	TAGTATCTCA	TTTGATCTCT
86851	GAAATAACCT	GAGATAAATG	ATCAGAGCAG	ATATAATTAG	ACTAGAATTA
86901	CATATGAAAA	AATCATGGCT	TGTATACATT	AAATTATCAC	CCAGTTTACT
86951	TATATGAATT	GTAAACATAT	CAAACATCAA	AACATCTACT	AATCAACATC
87001	AAAACAACATA	GTGTTTACTG	GTTGATGACT	TACTATGTGC	CAGGCACTCC
87051	TAGGTACTTT	ATGTACATTA	GTTTATTAAA	TCCTCAAAAC	TCAGCAAAGA
87101	TTCCACATTT	CATTATAATA	TTCCCATTTAC	ACAGATAAAG	AAACTGTCTC
87151	AAAGGTTTGC	CAAGGACAAA	CAGCTAACAA	ATAGCGTAGC	CAGGATTTAA
87201	ACCTAGATCT	CTCTGACCTC	AAAGTCAGAA	TTCTATGATA	CCAATTCAAC
87251	TTACTTACAC	ATATGAAATA	TATGCATTAA	TTGATTATAC	ATCATTAAAT
87301	GAAAAATCAG	TACATGTGAC	TCTGCTGCTG	TCATCTCTAA	TCCTTGAAGA
87351	ATTTGCTGAG	ATTTTAAGTA	CAATTATGTC	TCAATTAGTA	AAAAGTTGGC
87401	TAGATAAAAT	ATTTGACCAC	CACCAGTTGA	CATTGACCTG	TAATTTATTT
87451	TTTAAACCTT	TATATATATA	TATATATTTA	GAGAGATGGG	GTTTCACCAT
87501	GTTGCCAGT	CTGGTCTCCA	ACTTTTGGCC	TCAAGTTGTC	CTCCTGCCTC
87551	AGCCTCCCAA	AATGCTGGGA	TTACAGGAGT	GAGCCACTGT	ACTCAGCCTA
87601	TAATTTATCT	TGATGAGTAC	AGAGCCTATA	GATGAAGGTG	AAGCATCAGA
87651	ATTTATAGAT	TCTCTGTGCA	GGTACCACAG	GCCAGTTCTT	TTATTTATTT
87701	TTATTTTTTT	GGGCCTTGGC	CCTCTACATT	TAGTTTTTAT	TTAATGTTCC
87751	TTCTTTGGAA	GGGCCTGCTT	GTATTGGAAG	TGTGCTCTTC	AGGCACCAGA
87801	TAAATGAAAG	CAGACCAGTT	AATTACGTAG	GATCTCAGAA	GTGAATTTGC
87851	ACACCTGGTG	TTTTTTTCAA	TAAC TAGAAA	TCCTGTTCTC	AAGCACTCAT
87901	CTTCCCATAC	TGGTTTTCTG	GTCCCTCATA	GCTCTTCTG	AAGAGAGACT
87951	GTTCATACTT	GTTAGTCTAT	GGAGTCCCTC	TCAAACTTTT	CCTGCTCGTT
88001	CATTCTCCCA	AAAATTGCCA	ACCACAGCCT	ATCTTGTTTG	TGACATCACA
88051	GATATCAGAA	AGAAGGCAGT	GACCTTGAGA	AACCAGCATG	GCCTCAGAGC
88101	CTTTTCACTC	TCTCTCCTTT	TCCTGTTTGA	AATTGGGTTT	TGTCCCTTCT
88151	TTCTTTAGGC	TTCATGTTCT	TGGTCATCAA	AAGACCAATT	CTCTGAGCAT
88201	TTTCTCCATG	TACTTAGAAC	TGTGTTCCAA	GAGGAATTCA	GGAGGGAAAA
88251	ACAACAACAA	AAATATTGAT	ACAATTTTTC	CCCAAGGAGC	TTACTAACAC
88301	CCAATACTGT	TTTTCTGTTT	TTTCCCTCTC	TTTTTTTCTC	ACCGTTATCA
88351	TCATTTTGCC	ACTTAAATCA	TAAACCAAGG	ATTAAC TTTC	TGGTTTTTTG
88401	CCCTTCAATC	ACATCCACAG	TTATTA CTTA	GTGCCC GTTC	TCAGAAGGGC
88451	CTTTTTGTAC	TGAAATGTCT	CCTCACCATG	GTAAAGGTAT	GGAAGGCAAA
88501	CAGGATGACA	TTTTGAGTGC	AGTGTTAAAT	TGAGGTGACA	TCCTTCTGGT
88551	GTCAAAAAC	ATTCAGGTGC	ATTTCTGTAA	CCTCTATGCA	CCTCTCCCCC
88601	CACCTCCAG	GTGTTATATT	TTACAGGCTG	TCATACCCTT	TTGTACCTCT
88651	CCTGAGGAGT	TGTGACATTT	GGTGTATAAT	TAATTCATTT	GTCTCCTTTA
88701	TAAAATTGTG	AACTCTGCAT	GTTTTGCTTT	TCATTGTATA	ACCAGTATGT
88751	GAAAAAAATA	TGAGCCACAT	GAATGAATGA	TTGACCAGAA	GTTTCAAGCTT
88801	ACAAGTAGGA	AATATTCAAA	TATAGGACAT	TAAATCCAAA	GGCCTCAGAC
88851	CTACTTGATC	CTTGGTCTTT	ACATTAATCA	TGTTATTTAT	CATCCAAACC
88901	AGGATACTCT	GAGAGCTAAA	GAGGATGCTA	TTAATATTAA	TAGCACTGGG
88951	AAGAGTCAAA	AGCCATAAAT	AATCTAGGCA	ATTCAGGACC	TATGTCAACA
89001	TCATTAAGGC	TTTTCAAGGC	AGTGTTTTTT	GGTTTTTTAT	TTTTTGTAGA
89051	GACAGGGTCT	CCCTATGTTG	CCTAGGCTGG	CCTTGAAGTC	CTGGGCTCAA
89101	GCAATCCTCC	TGCCTCAGCC	TCCCAAAACT	CTGGGATTAC	AGGTGTGAGT
89151	CACCATGCC	AGCTTCAAAT	AGACATTTTA	ATTCTGACAG	TGTTCTGATA
89201	ACCAGGATTT	TCTGCTCTCA	GAATACCAGA	TATCAATTTG	AAATGGTGTC
89251	AAATAGCTTT	TTAAAAAGTG	TACATGGTAA	AAGAAGCAGT	GATCCCTTTG
89301	TTTAAGGAAT	TTAAATGATA	ATAACTTTGT	CAATCTGAGA	CTAAGAAGTC
89351	CTGGGCCAGA	GAGTGCAAAA	AGCAATACAG	AAGAGATACA	GGCTTCTGAA
89401	TACTGTAATT	CTTTTTTAAA	CCTCCTTCTT	CAAAAGAATC	AGCCCCGATTC
89451	ATGTTGTA	TGAATTCAAG	ATAACAAAAC	ACCTTTTAGT	TACTTAGAAA
89501	GATTAGATTG	TAAAAATATGT	GCTGAGTTCC	TAGAAATTAA	AAGTGAGAAT
89551	GAAAAAAGA	ATCAATGAAA	GTACAGTAGA	TCTCCCGGAC	AAGGAGAGAC
89601	CATCTGCATA	AACTGAAGA	TATAAAATAT	GTGACTTCCT	ACTTTTAGAT
89651	TAAAATCTAC	ATTTTGCTT	TGGACATGGT	AGAAGATTCA	AAATTACCCG
89701	TAAACAGTCA	GCACTACGTG	GAAGTAGGAG	CAGCAGTAGG	CTGCTGTTTG
89751	CTTAGGGTTT	CCTGGGTACC	AGGCTGCCTG	CTAAGCACTT	GTGAGTTATT
89801	TCACTCAGTC	TTCCCATAGC	TCCAGGAGGT	TTATGGCACT	TTGTCCCCAT
89851	TTACCTTCG	ATGAAACTCT	GGTTC TGAA	AATTACTTGC	CCAAGTTTGC

FIGURE 3CC

89901	ATGGCTATTA	AGTAGGGAAA	GCATCATGTT	TAGGAAATGC	AGAGCTCTTC
89951	ACCACTCTCC	AGCCTGCAGA	TGCTCAGCAT	GGCTGCAGCT	CTGAGGGGAG
90001	CGCGGGACAC	CTATGCATGG	CCACCTGCCT	CAGGCACCCA	CAGACGAAAG
90051	TGGTACATGT	GGAACGGACA	GACAGAGAAC	AGCCTAAAAT	TGGAAGCTAA
90101	ATTGTGTGAG	AAAGACAAGT	ACTTCAGAGA	AGATAGTGTG	GAGTCGCAAA
90151	ATAAGTTTCA	TGAGAGCTCA	TACAGAAAAC	AGCCTAAAAC	TAGAAGCTAA
90201	ATTGCGTAAG	AAAGACAAGT	ACTTCAGAGA	AGTTGGTTGG	GAGTAAGAAA
90251	GCAAGTCTCA	TGAGAGCTCT	GAGGGGTGTA	AATGGGACTT	TTAACAGCCA
90301	AAGCACACAG	CAAGTCTAGC	CTAGCAAGAG	GAGCTCAATG	GATGGAAGTC
90351	CTCACTTGT	TCCCTGTGTT	AACATAGAAG	GGGGTCTTTT	TAAAAATTTG
90401	TTTTCACCTC	AGCTTTTCTG	CCAGAAATGT	CTAGTGTAGT	GATGTTTTAA
90451	AAAAAACCTA	AGTATCTGTT	TCCGCCACAA	ATCCCCATTA	AGACATAAAT
90501	GGAGTTTTAT	TTTGTGGATG	TTTAAAAATC	CATGGACTTG	AACTTTTGGT
90551	AGTTTCCCAA	ATATGTAGAA	TATTCAGCTA	GTTTTCTTCA	ATTTCAGAAT
90601	CTTTCTTTTC	TATCATTGTT	AAAGACACAG	GGTTGCATAA	TAACCATTAA
90651	GTTTGAATTG	TGCAATTAGA	CAACTTTCTT	ATTAGTCAAG	AAGTCAAACT
90701	TTTTGTGTGA	GTACAGCTTG	AAAATCAGCT	TTAGTTTCCA	AAGAATGGCC
90751	AGTTTGAAGT	ATAATATTCT	CTTTTGCTTA	CTTGAAATCT	GCAAATAAAT
90801	GCTTTAAATT	AGGGACAAAG	TGATTATTTG	CTTTTATTTA	AAAAATAAGG
90851	GAAACAAAAC	TCATTACAAT	CTCTTCTACA	GGGTAGTAGC	TATTCTATTT
90901	GTTGATTGCC	TCAGCCTCTC	CAATGAACAA	TCTGGTGGAA	AGTAATTATT
90951	TAATATTATA	ATCCAAAGAC	AAATTTCTGT	TTACTCCCTT	GTGAGATCTT
91001	AAAGTAGACT	CAATTATGAA	TTTAAAGCTAA	TGAGATGGAT	TGTATGGGAC
91051	AATTAAATAG	TAAGTCATTT	TGGGTCAAAA	TACCATTGGA	GAGGATGGTT
91101	GATTGTTTTT	TCCCTCTGAG	AATTACCCCC	CACTATAACG	AGGTTATAAC
91151	TCACTGTTTG	CTAAATTTTT	ATAGGAATGA	GATAAAAAAT	CTGATTAGAG
91201	TAATTTGTGC	AAGTAATTAC	AGTACAACAG	AGAGAGTTGC	AAAAATTTCA
91251	TTTCCCATTG	AGTACCGAAA	TGTTGAAGAG	AAATAAAAAGA	AGATTTATGG
91301	CTGTGTAGAA	AAACACAGGA	TGGTATTTTT	ATTTATCACC	TTTGCCTTCT
91351	TTGCTGTTCT	CATTGGAACC	AATAACTGAT	TCCAGATTCA	TCTTAGGGAC
91401	TGTATAAGAT	GCAGATAGAA	ATTATTTCTC	ACACATGACC	TCTTGGGCTG
91451	GAGTAGCTGC	TTATGAGATG	TTCTATCAT	TCTTCTAGAA	ATCAGTACCT
91501	TGACAGTGAA	GAATAAATC	TTAGGAATAA	TGCTTCTAGT	CCAAATATTT
91551	ATTCAAAAAA	TATTTACTGG	GTACCTATTT	GCCAGTGTTT	TGAATGCCAG
91601	GCTCCCATGG	GGAAGAAGAC	AATCCCCCTG	TCATAAGAAG	TTGTTAATAT
91651	TATAGTGTGA	AAAATAGTCA	AGTAAACACT	TCAACATTAA	TATCAAAAGG
91701	CTTTTAAATG	TTGTGGCATG	TGCCATAAAG	AATGAAAGCT	GTTATGTGCA
91751	TATCCTGAGC	GATGCATGTG	TGCCTGCATG	CACGTGCACG	CACGCACACA
91801	CACACACAAT	ATGCTTAGTT	GCGTCTTCCC	AATGCTCATG	GTTATACCTC
91851	TAATGTAGC	CTCTGGACCA	TGATATTCTA	TATAAAAAGC	TGTCTCCCCT
91901	CTCCAATCTT	AAGCCCTCAT	AAGTGGATAC	TACACCTCAC	TTATGTTTTA
91951	ATCTCCAGCA	ACTTGCACTG	GATCTAAACT	AGAGTGCTTG	CTGGATAATT
92001	CAATGACTGA	ACAAATGAAT	GAGGACAGTA	TGTATATGTA	ACCATTGGGT
92051	GAGTGCAGAA	GGTAAAAGTT	GCTGTGGAGG	ATGTCGTCTT	CAGCAAATTC
92101	TCAAATTTAT	TCCACACATT	CCTCTGTGCA	TCCACAACAT	GTGGGGTTCT
92151	GGTCTGCCTT	TCCACTATGC	TGGATTAGTT	TTGTATGCTG	TGTAACAAAT
92201	TCCTACAGTC	CCAGTGACCA	GAAAGAACAT	ACCTTTATCA	GCTCGCAGTT
92251	TCTTTGGGAC	AGGTGTCTGG	GCACAGTCTA	GTTGAGTTCT	CGGCACAGCT
92301	GCCATTAAGA	TGTCAGCCAG	AACTGGGTTC	TCTTCTGGAG	GCTGAACTGG
92351	GCAAGAATCC	ACTTCCAAGC	TCAGTCAGAA	TGTTGGCAGG	AGGTATTTCC
92401	TTGTGGCTGT	AGGACCCATG	GTGGCTACTT	TCTTTAAATT	TAACAAGGAG
92451	AAGAATACCG	TAGAGTAAGT	TGGCTAGAAA	GAAAACAGAG	TACACATACT
92501	TGAATGATGA	TATATAACAT	TGTAACATAA	CTCAGTCACA	GAAGTAAGAC
92551	CATCACATCT	GCCATGTAAT	GTCGGTTAGA	AACAAACCAT	GGAACCAGCC
92601	CATGCTGAGG	GGCTGGAAT	TATGCAAGGG	TGTGAACACC	AAAAGCTGGG
92651	AATCCTGGGG	GTCACCGTAC	ACAGTCTGTT	CACATTTCTT	CTAAAGAAGT
92701	TGCACTGCAT	CACAGTTCCA	TACCAATTTT	TGCTATGACC	TTAAATATAG
92751	CCCTGAACCT	CCCTGTCAAG	GAAGAAGTGA	GGAGGTTTCA	ACAAGTGATC
92801	AGTAATGATT	CTTTTATGTC	TAAGATTCTA	GGATGATTTT	CTCTCTGCCC
92851	TGGTAGGCTG	CTCTTCAAAG	TATGACCTCC	TCATTGTTTC	TCTGCTCTAC
92901	CACACACTCA	TTCCCCTCCA	AGAAGGCTGC	CCACCTGTAA	TGACCTGTCT
92951	ACAGAGCCTG	TGATAGTGAC	TTGTGATAAA	TGGCTATTAG	CACATTTACC

FIGURE 3DD

93001 AATCAAGGTC CTGTTTGCAA TTCGGTTGTG GGTCAAAATT ATGTTTGTTT
93051 TAACTGAGGT CTTTAGTTTA TTTCAGGCAG AGATCTGGGC TGGAGTGCA
93101 CCTTTGTGTC TAATTTCTCAC AACTGTACT ATCTTAGCAG TCACATTTTA
93151 TTTTCTTGAG ATGATAATTT ATAGGAAAAA ATAAGACATT TCTGCAGCTA
93201 ATCATTTTAG TCAATGATCA TTGAGTGACA GGTGAGCTCC TAATAAATAA
93251 ATTTGCCAAC ACAGTGACAC CTCAGGTTTC TGAAGCCTGT GGAATGAGT
93301 CATCTGGAAG GATGTTTTTC TAATTCCTGG AAGTATTTCA GAGATTTTTA
93351 ACTATTTAAT TTATACTACA AAGCACCTAT GTCATTTTTT TAATGACTTA
93401 ATAGGAGCTA TCACTTATTG TTTACACCAA GAACTGCGTA CTGTGCTAAT
93451 TGGCAGGTTT CACACACCAC CTAACCTGAT AATCAACAAT TCTCTGAGGG
93501 GATTAAGCAA CTTGCCAATA TACAGTCAGT ATATGGGGAC CAGATTCAAA
93551 TGTAAGAATTA CCTTCTTCAA AGGCCCTGTT CTAGGTATAG ACGCTCTTAC
93601 TTTCACTCTT ATAATAATAA GATATCCTCA AGGTCAGATG AGCTGTTTCA
93651 TGCTGTTTAC CAAATAGCAT AAAACTTCAG TTTAGATACA TATTTTAGTG
93701 GGTAGGTACT ATATGTTAAT TTGTGCTCCC TCAGAAAGAT TTGTTGAAGT
93751 CCTAACCTCC AGTGCCTCAG ACTGTCATCT TTTTGGAAA GAGGGTTTTT
93801 ACCCAGATAA TCAAGTTAGA ATGAGGCCAT TAGTGTAGGC CCTAATCCAG
93851 TATGACTGGT GTCCTTATGA AAAGAGGAAC TTTGGACACA GAGGAACATA
93901 CAAAGAGTGA AGATGATGTG GATGTAGAGA GACACAGGGA GGATGACAGG
93951 TGAAGATGGG GGATTGATGT GATGGGTCCA CCAGCCAAGG AATGCCAGAG
94001 ATTGCCAGCA AACCACAGA AGCTGGAAGA GGCCTGGGAG GAGTCTCCCT
94051 GAGAAGTTTC AGAGGGAGCA TGGGCCCTGC TGGCATCTTG ATTTTGGACT
94101 TTCTACCTTC AGAACTGTGA GAAAATTAAT TTCTGTGTTT TCAAGCCAC
94151 TGTTTGTGGT ACTTTGTGAC AGCAGCTCTA ACAAATGAAT GTAGTAAATA
94201 TGTTTCTATT GTTTTCTTTG CTGCTAATTT TTTAATCTTT GCTTCTCTAG
94251 TAGGTGCTAC TCAGAGCACC TTCTGTCCTC ACTCCTAACA TGCTGCTTAC
94301 AATACATTAT GGGATAGAAG ACCAAGTGAC AAAACTTGTT TGTATTGTTT
94351 GTAAAAATTA ACTAAACCAA GAGAATATTC AGTAAGTCAA GTCCATTGGC
94401 TTTAGTATAG GGTAACCTAT TTTAATGTTG CCAGAGACTG TCTTTGCTTA
94451 CTTTTGTATT TCAGGTTTGG GAAGATATTT TCAGTATCTG TAGGCTTTTT
94501 TTTTTTTTAT ACCACTTCTC CTGTCCAAGG TGTGTTGTTT TGCTTTTATA
94551 TATCTATTAG GAAAGTTAAA TCTTTTCCAT TTTACCAAAG CTACATGTCC
94601 AGTATGAGAA CATTTAAAGT CTAATAATTA TCTGATTACT TATATTGTAT
94651 GTGTTCTGCT TGATGCTGGC TTTCTTTCAG TGTATTGATA AAAGTTTCTA
94701 TTTGTTGCAG TGGAAATAATA GACTTTGGTT TTAGGCTATC ATCTGTGGAG
94751 TGCTTAAGAA AATGCCCTTT CTTTTTGTTT TGGTAAATCT TCTTTTCAGT
94801 AGACCACAAG CCCTTGCAAA TGTTCTCTTT TTCTAACTCT GGTAGCAGAA
94851 GGACCACTTG AGCCTCAAAA CAAAACGGCA GTGCAGTAAT GAGGGTATTA
94901 GGTTGATGTG TTCTATTTCAG CACCTGCTCC CGAGCTACCG AATAATGAAT
94951 GAGCATGAAT TACACATTGT GAAAAACAGGA GAATCTGCCT TCTTTGTGTT
95001 GTATGCATCA AGCAGTTTCA AAAGGGCTTT GCAATTGTGT TTCTCACACA
95051 AAGCCACCCA TTTGTGAAAA CCCATGTGTA AAGGCAAAGA GAACTGTCTG
95101 TGTACAGGTT AACATTTAAC TAGACTGGCA GAGCTTTTAA TAATTTCTAT
95151 AAGGTTAATG GCTTCGTTAA TATGCAACCT GTGATTGGT CCAAGTTAAA
95201 TTTTACTTTG CCCAGAATAC ATTATAATAT AAAGCTTAAG CTTTATTCTT
95251 TCAGGTTTAG TCATTTAACA CATAATATTG ATCAATTATG CATGTTGGAC
95301 ACAGAGCTCT GAATAGAGCT TTGAAATATA AAAGTATGGT TTTAGTCCTC
95351 TTAGAGCTAT GATGTTTGGT AGGTTAGGTG AAGTAGACAC ATTTTGGACT
95401 TATAAATTTT CAGCTTACAA TGGGTTTATC AGGGCGTAAC CCATTGCAAG
95451 TTGGGAGCAT CTGTACGATG GTATAGATAT ATATAATGCA TATAGTTTTA
95501 TATCCTTTTA AGACAAAATA TGAAGATATT TTATTTGCTC AAATCTTGTT
95551 ACACAGTTTT CCACTGTGAT ATTCACATGC TGACAGAGAG GCTATTTGCA
95601 TGGTGTGTTG CACCAGCAAT GAACAGCAGC ATTTGAGTTA TGTAGTGGCT
95651 CTGCCAGTTA CCAAGTGGGG AACTTGGGCA AGACACTAAG CACCTCTGAA
95701 CCTCATTTGT TTTATCAGTA AAATGAAGAT AGCTATACAT ACTTCACAGG
95751 CTGTGGTGAT GATATATTCT AATGAATATA CAGTCTTAAA TAAAAACATT
95801 CAATAAATTC TAGCTACTCA TTTATATTAA TTTATTATAC CCATTTGCTT
95851 TGAGTTATCT TCTTTGCAAT AAGCTGTGGG AAAAACTTAC TGTTCTTCT
95901 CATACTCCAG GATACATCAT CACCCAAATC ATTACACATT CTTATATAAC
95951 GCAAACATTA AGAAAGAACA ATAATCTTAC TAAAAAGCAG AGTGTGGTAT
96001 GGTAGAGAGA TTAAGAGGCT TTGGAATAGT TACATCAGGG ATCAATTAGT
96051 GAGCTGTGTG ACTTTAGGCA AATTAATAAA CTGAATTTCT TTAAATTTTG

FIGURE 3EE

96101	TTAAATAGGT	ATAATAACAT	TATATATAAG	AAAGCAGGAA	AAATATGAAC
96151	AGCTCCTATT	ATAATGCTTG	CAAAATCAGG	AGTGCTTAAT	AAATGGAAGC
96201	CACACTGCGA	TTTTCCAGAT	AATTGTGAAA	CAACTACGGG	CCATTACAAA
96251	ACCATAGGAA	ATTAGAAGTG	AGGAGTAATT	TGGAGACTGA	CAAGCTCTAC
96301	CTTCATCTAA	AGGCAGAATT	TCTTCTGCAG	TCTCCCTAAC	AAGGAATCGT
96351	TATACCTCAG	GGATGGGATA	GTCACTACCA	CATAAAGTAG	TTCATTTTCA
96401	GACATGCATA	ACCTTAGAAA	GTTCTTCTCT	TGATTTACAA	TTAGCCTCAT
96451	AGTTCTGTTG	CTGCCTATTG	GAGTTTTACT	ACGTGTACAG	TCAGGCAGGG
96501	CTTCATTCA	GTCACCACCC	ATTAGTACTG	TTGTACTAGT	AATTTATGGA
96551	TGGCGTCCAT	TCTTACTGGT	CCATGTCCCA	TTCTGATTTG	TGTTTGTGCC
96601	ATTTTTAAGT	GTTTTGAATA	TTAACCCTGG	TATCAGATAA	ACATGGAGTC
96651	CTGACTTTTT	CCATAATCAT	GAATAACAGT	GGAATAGTTA	CATCAGATTT
96701	GTGTGCCACT	GTGGTCCCAT	CTATGAAATA	GGGATAATAA	TTGTACCTAG
96751	TTCATAAGGT	TGTTTGAGGA	TAGTGTGGAA	TAAAGTATAA	AAAGGGCTTA
96801	GCCTGGTTTC	TCAAATATTG	CAATAAATGA	AACCTAGCAT	CATGATGCTG
96851	TCACAATGGT	TCAATGATAA	TTGAAAACAT	CGATTTCATCA	TTTAGCATCC
96901	TCAGCTTATC	AGTTTCTCAC	TATCTAGCTC	TTCTTACACT	GGACACTTCC
96951	TAATTATTCT	TTCAATGTTT	TCTGGAAGTT	AGTTGAATAA	TTACTGTGCA
97001	CCAGATACTA	CACAGTAGTC	CCCCTTGATG	CATGAGGGAT	ACATTCAAGA
97051	CCCCCAGTGG	ATACCTGAAT	ACGCAGATAT	TTCCAAACCC	ATATATACTA
97101	TGTTTTTTCC	CTTTTGTACA	TACCTATGGT	AAAGTTTGAT	TCATAGAGTA
97151	AGAGATTAAC	AATAACTAAT	AATAGAACAA	TTATAACAAT	ATGCAGAGTA
97201	AAAGTATGTG	AATGCAGTCC	CTCTCTCAAA	GCATCTGATT	GTACCGTACT
97251	TACCTATTTT	TGAACACAG	TTGACTGTGG	GTAAAAAGGA	AAACTGCAGA
97301	TAAGGGGGGA	TTACTATACT	ACGAGTTTTA	CATGTACCAT	TTAACTAAAT
97351	CATTACGACT	CTATAAAGTA	GATATGATTA	TTGTCCTCAG	TTACAAATGT
97401	GGAGGGCTGA	GTCTCAGAAC	GTTCTATTAC	CGACATGGTT	TTGGTCCCAA
97451	CAGAAAACCT	CATAATGGTT	TAAACAATAA	AAGAGATTTA	TTATCTTATA
97501	AAATCAGAAA	ATCCAGATGT	GTGCTGGACT	TGGAGGGTAT	CTTGATTCAA
97551	CAATTCAGCA	GTATCACCAA	CTAGCTGGTT	TCTTTCACTC	TCTTCTCTCT
97601	TTTCCATGTG	GCCACTTCAT	CCTCAGCTTG	TTCTCCATG	TGATTGCAAG
97651	AAAGCTGCCT	GCTGCCCAGG	GCTCCATGCT	AAATCTTTTA	AATCTAAAGA
97701	ATCACACTCC	TTCTCAAAAC	TTTCCCCAGG	ACAGCAAGGA	AGCTTTTTCC
97751	TCAGAAGCCC	AGAACATAAT	TCTTTCTGAT	ACTCAGTGGC	TTAAATTGGG
97801	TCACCAGCCC	ATCCCTGAAC	CAATAACAGG	GCCTGTGGGA	TGGGATAACT
97851	CCTACTTAGG	CCTGACTCAC	ATAATCCTTC	CCTACAGTCA	GGGTGGAGTA
97901	GGTTTCCCAA	AGCACACAAA	ATACAGTGTG	TGTGTGTATG	TGTGTGTGTG
97951	TGCGCACGTG	CATGCGTGCG	CGTGTGTGCG	CGCATGTGTG	CATGAATGTG
98001	TGTGTTACAG	AGAAGTGAAA	ATACCCAGTT	GAAAACCTGAA	ATGATGATTA
98051	AGAGAAAGAA	GAATGCGTAT	TAGAAAGGCA	ATCAAAATGA	CCATTAGTAA
98101	GCTGCACAGT	CGAGATCTGA	GCCTTGGTCA	TTTGACTACA	GAATTAATAC
98151	TCTTAAACCT	CCACTATCTA	CTGCTTCCCA	AATCAACCTA	GAAATCCCTG
98201	GGGTTGGATA	GGACCATTTG	TGTTTGAGAC	TATTACCAAC	ATTACTAAGT
98251	ACTATACTAA	TATACTCATG	CAACCTAAAG	CATATATATG	TGAAGTGTGT
98301	ATATGTACCC	ATATATATAC	ATACACACTC	ATATACTACA	CACAGTATAG
98351	CCTATACAGG	GCTCATGTTT	AATCAGCATA	CACCTGGTCTG	GCCCTATCAG
98401	TTGTATTTCA	GTGTATTGGC	TGATGAAGAG	GTCATGCCTA	AGCTTTGCTG
98451	CTACTCCAGC	CCCTTTTCCA	ATCTCCCCCT	CATCCCCCAC	CCCTTCCCTC
98501	CCTTGACCCA	GCAACTGAAG	TGCTAACTCC	TGGCCCAGGA	GAGGTCCTTC
98551	AGGGCACTGC	TCCTGGGCTT	CCATCAGCAT	CCCTTCTGAT	GAAAGGATGA
98601	CTGTGCTGTT	CTGGTTGTTA	AATATTTTGT	CCATCACCTC	TGGCTATTTG
98651	TAAATATATA	TACTTACATG	GAATACTATA	TATGCCCCT	ATATTTTCAGT
98701	AAACTTTACT	ATGCTAAGCT	CTAGAGAGTT	TAGATCATTT	GTCCAAGATT
98751	ACATAATGAG	TGACTGGGAT	TACAACCAAA	GATTGTGAAG	TACAATCTTA
98801	GGAGGATGAT	ACCTAGTCTT	TAATCATCTA	ACCCTGACAG	CCTTTCACCT
98851	CTGCCCCCTA	TTCCAAACTG	TTTTTCCCTA	TAATTTTCCC	TCACTCGCTC
98901	TTAACATGGG	TCTGTTTTTT	GAGACCAATA	GCCCCTCTGT	GACACCCTAA
98951	ATAATATGTT	ACAGAATTAT	ATGTATAATA	TTTTTCCCCT	CTCCAGAACT
99001	TGGCGATGGC	CCAATCTGAG	AGACTGTTAT	GTGGCAAATA	ATTAAATACA
99051	AACTATGGAC	CATCAAAAGG	CCATGGGACA	CTGAAGGAGT	TGATTTTGGT
99101	TTCGATATAC	CGATTTTCTT	GTTTGCTATT	TTCATGTACA	TGTACCGGTA
99151	TAGGATTGCA	GGGTGAGCAA	CTTGACTCCA	GGGGAGGCGC	AATGAAGGGA

FIGURE 3FF

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99201 TGTAATTAGC CTGTAAACCC TGCTAATGTC TTGTAAAGTC ATTC AAGTGA
99251 GAAGAGTAGA TACATCAATT CTTCTTGGA TCCTGCCACA AGGAGCATTG
99301 TATTTCCACT CTGCTATTTA TAGTTCTCAC AGCTGGAATC AGCTGGTTCA
99351 GCAGGACATG GCTCTTTTTT ATTTAATCAA ACCAAGATGC AATGAAGAAT
99401 TTCCAAAGTA TGCATCCTAG AATTTCCCTT TATCACCCCC AAAATTCCAT
99451 AGTCCCTCTG AAATCATAGG CTCGTAACAG GCATAAATCA CTTCTTATTT
99501 ATTACTCTTA CTCTAATACA TACACATACA CTTACTGGAA AGTCAAGTTT
99551 CTTAGTTGGC CAATGGTAAA TGTGGCGCAT CTGGCACACA GGGTTTGTTC
99601 GGGTTGTTTT GGGGGTGGGG ATTGGTTGTT TTGCTTTGTT TTGTTTTCTC
99651 TTCTCTTCTT AGGGGAAAAA GACATGCAGG GCTTAGTATT CCAACAATTT
99701 GAGAAACCAG GGGGCTGGGA TTCATTCAAT TTTATGACAA ATAGTTACTC
99751 GAGCACCTAC TTTATTCTTG GGTACTTTTA TGAGTCCAGG GGCTGCTGCA
99801 TTGAACAATA CAGAAAAGAA GTCCTTTCAC TTAGAACTTA CGTCCTAGTG
99851 GGGGTTGGGG GTTGGGGGTT GAGAGAATGA AGCATTCTTA CAAAGAATGT
99901 TAAAAGCGAA CTATGGGCAG GAATTGAGGA TATGAGTTTT GATGTATAAA
99951 GAAAAGTGA CAAGGTCAAT AATTGGTGGT CTTAGTGTGA TAGATATGCC
100001 AGTTTGGAAA TTGTATTGAA TAAATGCTAG TCAGGGGCTA GGCTGTAGTT
100051 ATGAAAAGGA GATGATTAAG GAAGTGAGAA TAAGGAAACT ATTGGTGTGG
100101 GACGGATGAA AAGATTATTG GAGGCAAGTC AAGGAACTGA GAGGCCAGGG
100151 TGTTAGATGG AGCATTCTATG TAGACACTGA AGTCACCAAG AATAATAAAT
100201 AACAAGTAAG AGGGAATTCA TCATTAGCTA CAAATCTCAT CTTGAATTGT AGTTCCCAT
100251 GTTTTTGCTG TGTCCCCATC CAATCTCAT CTTGAATTGT AGTTCCCAT
100301 ATCTCCATTT GTCATAGGAA GAATGCAGTA GGAGTTAATT GAGTCATGGG
100351 GGTGGGTTTT TCCAATGCTG TTCTTGATG AGTGGGTGAG TCTCATGAGA
100401 TATGATGGTT TTATAAAGGG CAATCCCCCT GCACATGGTC TCTTGCCTGC
100451 CTCCACGTAA GAGGTGCCTT TGCTTCTCCA TCACCTTCTG CCATGATTGT
100501 GAGGGCTCCC CAGCCATGTG GAACTGTGAG TCTGTTAAAC CTCTTTTTCT
100551 TTATAAATTA CCCAGTCTTG GGTATGTCTT TATTAGCAGT GTGAGAATAG
100601 ACTAATAAAG CCAATTGGTA TGAGGAGTGG GGCCTGCTG TAAAGATACC
100651 CAAAAATGTG GAAGCAACTT TGGAACTGGG TAACAGGCAG GGGTTGGAAC
100701 AGTTTGGAGG GCTCAGAAGA AGATAGGAAA ATGTGGGAAA GTGTGGAAC
100751 TCCTAGAGAC TTGTTGAATG GCTTTGACCA AAATGCTGAT AGTGATATGA
100801 ATGAAAAAGT CCAGGCTGAG GTGGCCTCAT GTGGAGATAA GGAACCTACC
100851 AGGAACTAGA GCAAAAAGTA TTCCTGCTGT GCTTTAGCAA AGAGACTGGT
100901 GACATTTTTT CCCTGCCATA GAGATCTGTG TAACTTTGAA CTTGAGAGAG
100951 ATAATTTAGG GTATCTGATG GAAGAAATTT CTAAACAGCA AAGCATTCAA
101001 GAGGTGACGT GGGTGCTCTT AAAAAACATTA AGTTTTATTC ATTCACAAAG
101051 ATATGGTTTG GAATTAGAAC TCATGTTTTA AAGAAAAGCA GGAATAAAAA
101101 GTTCAGAAAA TTTATAGCCT GATGATGGAA TAGAAAAGAA AAACCTATTT
101151 TCTGAGGAGA AATTCAAACCT GGCTGCGGAA ATTTGCATCA GTAATGAGGA
101201 GCAAAATGTT AATGGCCAAG ACGATGGGGA AAATGTCTCC AGGGCATGTC
101251 AGAGGTAGCC CCTCCTATCA CAAGCCCTGA GTCCTGGGAG GAAAAATGGT
101301 TTCATGGGCT GGGCCAGGG CCTTGCTGCT TTCGTAGTCT CAGGACTTGC
101351 TGCCCTGCAT CCCAGCTGTT TCTAAAGGGG CCAACATACA GTTCAGACCA
101401 TTGCTTCAGA GGGTGTAAAG AGCAAGCCTT GGTGGCTTAC GCATGGTGTG
101451 GGGCCTGTGG ATGCACAGAA GTCAAGAATT GAGGTTTGGG AACCTCTGCC
101501 TGGATTTTCA AGGATGTATG GAAATGCCTA GATGTCCCGA CAGAGTTGTG
101551 CTACATGGGC AGAGCCCTTA TGGAGAACCT CTGCTAGGGC AGCGTGGAAG
101601 GGAAATATGG GGTGGGAACC CACACACAGA GTTCCCACTA GGGCACCACC
101651 TAGTGGAGCT GTGAGAAGAA GGTCAACATC TTCCAGACAC CAGAATGGTA
101701 GCTCCACCAA CAGTTTGCAC CATGTGCTG GAAAAGCTGC AGACATACAA
101751 TGCCAGCCAA TGAACGCAGC CAGGAAGGGG GCTGCACCCT GGAAAGCCAC
101801 AGAGGTGGAG CTGCCCAAGG TTGTGGGAGC CCACATGTTA CATCAGCGTG
101851 ACCTGGATGT GAGACATGGA GTCAAAGATT ATTTTGGAGC TTAAAGATTA
101901 TACTGCCCTG CTGGATTTCA GACTTGCATG AGGCCTGTAG CCACCTTGTG
101951 TTGGCCAATT CCTCTTATTT GGAATGAGTG TATTTACCCA CTGCCTGTAA
102001 CCCATTGTA TCTAAGAAGT AACTAACTTA CTTTTGATTT TACAGGCTCA
102051 TAGGCAGAAG GGAATTGCCT TGTCTTAGAT GAGACATTGG ACTGTGGACT
102101 TTTGAGTTAT TGCTGAAATG AGTTAAGACT TTGGGGAATT CCCAGAAGTG
102151 AGGGTTCCTC CCCATTGTAG ACCATATAGG TAGCTTCCAG ACGTTGCCAA
102201 GGCATTGTA AACTGTCATG GTGCTAGTGA GAGTGTCTTT TAGCATGCTC
102251 ATGTATTATA ATTAGTGTAT AATGAGCAGT GAGGATGACC AGAGATCACT
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FIGURE 3GG

102301 TTTGTCACCA TCTTGGTTTT GGCCAGCTTC TTCACTGCAT CTTATTTCTA
102351 TCAGTGGGGT CTTTGTGACC TGTACCTTGC AAAACAGTC CTGCTGATTA
102401 CTAAATTCCT ATCTCACCTA TTCAAGATGG AGTCACTCTG GTCTGAATGC
102451 CCCTGATAAG AGAATCCACA GTGTTCAATT CTCCCCAGTT GATTCTGAAG
102501 CATATCCAGG TTTATTAGCC ACTAAGTAAA AATATATTAT AGACTACTGT
102551 CAATGAAAGA AACATTTTGT AAGTTATTTT ATATTTATTT TTACTTGAGA
102601 AGACTGAAAA GGTAAAGAAG TGATGCTAAA ATTTAGAAGT AGAAAAATCTC
102651 AACTTGCTCT AGTAGGAATT TTAATAGAGC AACTAAGTT TCTTTTCATT
102701 TTCTCTCTCC TGGTATGTGA ATAAACAACC TTCCATACTG CAATTTACCC
102751 TGTAGTGAAT TAGATGTTAC CCTATTATAT TTTGGAGAAA CTATATAGTT
102801 AGAATCTAAG CTTAGATAAC TTATTTTAT GTTTACAAAT CCACTTTCTC
102851 TTATACATTT TTCTTAAATT TTTCTCATAT TCTTTCTCTG AATTTGTGGT
102901 AAAAATACCC CTTTCCCAT CTATGTCATG GTTCTTTACG AAGCTTTCTC
102951 ATCCTCTCCA TCCCAGGGGA ACTATGTCTC ATTTATCTTT AGGTTTTCTG
103001 TATCTTACTA CAGTGACTTA CCAGAGTAGG TAAATATCTG ATGAATAAAT
103051 GAATACAAGA TTTAATTAAG AAGTAATCAC ATTTAACTAA TTGTTCCCTC
103101 TCTGATCTCT GTAATATTAA GTTTCAAAGT AGTTTCTGGG AAAAGTAGTT
103151 AACACAATGA TGTATGGATT CAATAAATAA GAAAAATGGT GCTCAGGGAT
103201 TTAACAGAAA GCTCATAAAA TGTCAAATCC ACAGCAATTA ATTTCTCCCA
103251 GTAAGTCCTC ATAAATTCAG GCCAAGAAAT TTGATACTGA TCTTGCCTCT
103301 CTCAACTCTC ATCCATCTTT GGTAGGGCTC CTCTGGGCCT CTTTTTCACC
103351 TGGCAACAG TACCTGATAC TCATTGGATG CAGATCTGAA AGAGGTGGAA
103401 AGAGCCGAC ACCTGGTTTA TCTCTAGCTT TATGGTGCAG AGAGTATTTG
103451 ATGGTGTGCA CAGTGCTCTG TATATACTGT TAGGATCAGC CTTCTTGAGT
103501 GCACTGGAAT TTCTCTGGGT GTCATTAAGT TCTTCATTTA CTGACCATGA
103551 GGCAGTGGGA TAGAATATGA TATTAATCAA GAAACCATCC CTGACATCAT
103601 GATCCACTTG GAAAACTTGC AGAAATTAGA AAAATTTTTT GAGTAGGCAT
103651 TTTGCTTTGT TGCCAGGCT CTGGGCTCAG GTGATATCCC TCTTCCACCT
103701 TGCAATGCAG CCTCAAATC AGTACACACC ACTGTGCCTG GCAAGAATTT
103751 CCTGAGTGGC TGGGACTATA GGCCTATAGT TATTTAATTA TTAATCCTGG
103801 TTTTTTTTAG GATGTTATAA GGACCATGCT TTTACACACT GATGTACAGC
103851 GGAGTTAGT GAAAAGATTT GATTGTATTA TATACCAGAA ATTTGCTATA
103901 AAGATACTA TAGTTAGTAA CTTCAAACAC ACAATTTTTG GTTTAAAATG
103951 TCAAAGTATC ATGTTGGCCA AAAGTAAAAA AAATTCACAG GAGAGCACAA
104001 ACTAAAAAAA TTAATAGC AGGGAGTAGT CTGGTGGTTA ATACTTGGAG
104051 AACCACCTT CTTCCAATGA AAAGCCTTGG TGAATATTAT AGTAAGGAAC
104101 GATAGAATGA TAGAGTTTGC CATTGTACTT TATAACAGCC CTCACTTTTC
104151 ACTCCTGAAT CAAAAAATCG TTTTCCCTAA TGTAACATTA AAGCCCTTCA
104201 CACTCTCAGA TTTTACTGC TTAGAGAAGA AATTCTGAAA CAGGTTTTTG
104251 GCCTAAATTC ATAGACTCCA CAAATAGCTT TCATGCTGCT AGAATAAAAA
104301 GAACACATTC TTAGCCTAGT CAAGTCTGTC AGCTTACTCT TTAATTAATA
104351 TACCTTAATC TTTGACAGAC CCATATCCAT AAACAGAACC AAGTGTGTGA
104401 ATATTAATGA GTAACAAGTC GGTGGAAGAA GTATCCCAGT TGGTCAGAA
104451 TAACTGTGA TAAATGTTAT TGACCCAGAA ATGAAAAATC AGGAAGGCTT
104501 ATATGGGATT AGGGGGGATT AGCTGTGGGG TTAAGGGTGA ATCTGTGTTG
104551 CCTGCAGGAA ATGGCATCTG GACTCTAATT TAGGCAAAGC AACAGCAGGT
104601 TCTGAGTGCA CTGGTGAGAG GGAGACAGGG GGTGGTTATA TAACTACATT
104651 GTGGATGTGA GGAGGCAAAA TTATAGTCTT TAAGCTCACA TCATCTGTGC
104701 ATCAACCATA TTTTCCCAT AAATGATGCT TAATACTACT AACATTACTT
104751 AATTCTAGAG TTACACAAGA ATATGATCCA ATGGACCAAT ATCTACATGC
104801 TATGGCAATG TAAATGCTTT GAAGTTTAGA GTCTGAGTTT TTGAATGAGA
104851 TTAGATACAA CATGCTATAG ATTTCTTCCA TTTACTAGCC TGTGACCTTG
104901 GAGGCCTTGG TTCAGAGCCC ATTTAAAAAT TGGGGATTTT CTGTCTCATA
104951 GGTTAAGCTT CAGTTTTCTG AGAAATTGAA AGTATTGAGA AGCTAGTACA
105001 AATTTACTGT GAGAAATTGAA TTTCTTAAGC CTTTTTGCCC CTACCCCTTA
105051 CTGTTTCAAC TTTTATTGTG AGCAACTTTC TTTTCTTT TTAATCTCT
105101 GTTCTGTTTG AGCCTGACAA TATTTTACTT GACGAACATG GTAAGTGAGT
105151 AGGGATATGA CAATCAAGTA CATGACATGC ATGTAGAAAA GTTGATTGTT
105201 GATTTGTTTG GGGTATTACA CATGAAAAAG GTATTTTGT CTATTATTCT
105251 CCCAGCAGAG TACAACTCC TCATAGACAA TATGGGGGAA CTTTATTACT
105301 GAGCTCTACT TATAGTACAA CAATACACCC TTAATCACA TTGAATTTAC
105351 TATGGCAGGT

FIGURE 3HH

105401	CTAATGAGAA	AATCATAGTC	TACTCAATTT	TCTTCCACTA	CTATATTTCT
105451	TCAAGAAAAC	CATCACAAC	TTTCAGTGTT	AGCTGGCCTT	AATATAACAC
105501	GCAATCACCT	ATTTTTTATA	ATGATACAGA	AGGCCTCAAG	CTGAGAGCAT
105551	TTGGCCAGCA	ATAGCATCTA	CCTAGACATT	AATGACATTA	TTTTGTTCTC
105601	ATTGCATCTA	CTTTTTTGCA	TTCCTTCTTA	TAAAAGGCAA	ATTGGTTTTA
105651	CATTTGCAAA	TTGGTTTTTA	CATTTACTTA	ATATCACAGA	AGAATTCTTA
105701	CATTTTAGGG	TCATTGTAAG	GACTGACCTA	ATACATGTAA	ACTACTTGAT
105751	GCAGTGACTG	TCACGAAGAA	ATCACTCAAT	AGAAGTCTAA	TATTGGTACA
105801	ATTTTTATGA	GGTGGTCATG	GGTTTCTCCC	CTTGGAAAGG	AAGCTGGAAC
105851	TGCTTCATCT	TGTTTTATGC	GGCTTTGTCT	ATGCTGGCAC	ATAACTAGTA
105901	TGTACCAATG	TATCTCAGAA	AAGATATCAA	GTTTTCTGTT	TAAAAATTTT
105951	AGTTTGAGAA	AAATCAGTTA	AAGAAAAACA	TAAAAAAGAT	AAAAGTATAT
106001	GTGTTATCTA	GATTTGTGAT	ATAGGGATAT	GGCAATAATC	AAGATGGTGA
106051	TAAGTGAATG	CTGAATTTCA	AGAACTACTG	ATTACACCCCT	CTAGAATAAG
106101	CTTTTGCCCC	TGATGATTAA	ATGTGTACGA	TTTCTTCCTA	ATATTTATTT
106151	TTGTGTATAT	TGGGATTTAT	TAGAATATCA	GGGAAGATCT	GCAGGGCACA
106201	AAAACCTGTAT	GTTATAAATG	TAAACAGTGT	CAATAAGATC	TTTGTTATGT
106251	CTTTAGAAGG	CTGCTAGATG	AGGAGAGTCC	TAGATCTTAA	AGGCTCCTTA
106301	TTCAATTTTT	ACAAAAAGGA	TTTGCAAGTG	GAACTGAAAC	TCCAAGTACC
106351	ATCTATTGCT	CATTATTTAT	TTACCTATTT	TTGAGCCTGA	TTTTCTGTAT
106401	CCCACCTGTG	CTCAGGGGGC	TAAGAAACAC	TGGTAATGAC	CTCTAATTTT
106451	AAAGCTCACT	GTCATTACTT	ATTTATGGAC	TGTCCAAAAA	GATTTTTTCC
106501	ACTTTCTTCC	AATGCCTTAT	TTCTTCCTTA	CCTTTACTGC	TTCTGACATT
106551	TGAAAACAGG	GTCTCTGATT	CTCAGAAATG	TGAGCAATGG	TGAGATTTAG
106601	CATGAAGGTG	ACTTTCTTTA	AAATACCAGC	TATCCAGAGC	TAGGTACAGT
106651	GGCAGGCACC	TGTAGTATCA	GCTACTTGGG	AGGCTGAGGC	AGGAGGATCG
106701	CTTGAGCCCC	GGAGTTTGAA	TCCAGCCTGG	GCAGCACAGA	GAGACCCTGT
106751	TTCTTGTTGG	GGGAAAAACA	ATTACCACTG	GCTTCTCTTC	TAGCCTATAG
106801	AGGCCACCTT	TGTGCAACTT	AGGGAGAAGT	GCTCCCCCTG	CCCACCACAG
106851	CTTCTGACA	GCACATGGCC	CACCAAGGAG	AACCCAAGTT	AGGATTGAGT
106901	CCTCACTTGC	TCCCTCAGCT	GGGTGCCTTT	GTGCATGATT	TCTGCTGTTT
106951	CACCATTTAT	AGAGGCCTTA	AATGAAGGCA	TATAGTCTCT	ATCAATCCAA
107001	CACTTCCCCA	GCTTTATCCT	CCCTTCAGAG	AACAGTGTCT	TCATCCCAGG
107051	TCTCATCCAT	GGCTTCACCC	TACTTCTATC	ATTAAGGCAT	CCTATTCTCC
107101	TTCAGTCAAC	TTCTTCCTCC	TCCTCATTTT	CTTGGTGACT	TGGTCATTGC
107151	AGATGAGGAA	AAACATGAAG	AAATCAATTA	ATCTTCAAGT	TTAACCACCT
107201	TTAGAGACTA	CCCTTGTAAG	AGATTAATTG	TGTAACAGTG	TGGTTAAGAA
107251	TGTGACTTCT	GGAGCCAGAT	TGCCTTCATT	CAAAACACAC	TTCACTCATT
107301	TCTAGCCCC	GAGAGCTTTG	ACAAGTTGCC	TAAACTTTGT	CTTAGTTTTT
107351	CCAGGGATCA	AAAGAATACT	TACTTAGAAA	AAAAATCTTA	CTTACAAAAG
107401	AAATCTTACA	GGGATCAAAA	GAATACTTAA	TTAGGGTCAT	TGTAAAGACT
107451	GACCTGATAC	GTGTGAAGTA	CTTGATGCAA	TGACTGTGAC	AAAGAAATCA
107501	CTCAATAAAA	GTCTAATATT	AGTACAATTG	TTCTGAGGCA	GTGATGGCTT
107551	TCTTTCCTTG	GAAAGGAAGC	TGGGACTGCT	TCATCTTGTT	TTATGTTTCT
107601	TTGTCTATGC	TAACACATAC	CTAATACGTA	CCAAATCTCT	ACCAGATAGA
107651	ATCTGTAAAA	GTTGTCCTTC	CCAAATAATT	ATTTTGATTT	AAGAAGTGAT
107701	ATACCAAATA	TTCTGCTTGT	CTACTTCTTA	GATCTTGTGT	TTAAACCATT
107751	TTGTTTATCC	CTTCATCCTC	AGGTAACCTAC	ACTTTCCGTG	TACATTCTGC
107801	TGTCTTTCAT	GTGTGCAGGG	GGCAAGGGTG	CAGTCATGAC	ATTTTATTTCT
107851	TGGTGGAGCT	GGGGCTCTGT	TGCCTACAGA	ATACAAGCCA	TCATTCCAGT
107901	GTGCCAGAGA	GAGAGTCTCA	GTCTGCCCCT	ATTACCTGGT	GTCTTATTTA
107951	CAATGACTGC	TTTCATTCTC	AAGGCTTTTT	AAAAATTTGGT	CAGTGAATTA
108001	AGAAGAGGCT	TTTCTGTATT	ATATTCCTAC	CCTGAACTCA	ACTTGAAAAAT
108051	CAATTGCTTT	GGGAAGGATT	GTATATGAAT	GGTACAGAAG	TGAGCAAACA
108101	AAAAAGACTG	AGAGCCATTT	TCTAAACATT	GCCTTAGGGA	TCTCTTTCTG
108151	GAGATAATAA	TTTTTTTGAA	GTTATTTACT	TCGTTTGTTT	AGATTCTGAA
108201	AAAGTAGGAC	TCTCAGACAT	TACTCAAGGA	ACATAATTAA	CCACTTTTCC
108251	ATGAACAAAT	TCCTGTTGTT	CACCTCTCCC	CAGCTCGTTA	TGTAGAGCTG
108301	ATCTTGTGAG	AATCAGCTGA	ATCACAATAT	AATGCCTGCC	TTTTAGAGTG
108351	TCTGCTGGTG	TGACTTTCCA	TGTGGAGCTC	ATATTTGAAG	ACCTCATTTG
108401	CCTTCTCCAT	CTCCATTTAT	AATATTTTAT	CCCTGATGGG	CTGTCGCTTG
108451	GGCCTCATGT	GGAAATTGTA	GCCACTGTGA	AGGGTAACCA	CCTATCTCTC

FIGURE 3II

108501	TGGTGCCCC	TATGCGCATC	CCTACAAGTG	AGCTGTGTAT	CACACCATGC
108551	TGCTTACATT	TTTATGCAAC	ACGATTCAGT	AACAGGCAGA	AACTTTTATT
108601	CTTACTGACT	CATATTCCTT	ATATTCATCT	GAAAAGATTG	ACATTTAAAG
108651	GAGCCAATTG	TACAATGGGA	AATCCACTGT	GTGAATATTT	CTTGACATC
108701	AGAATTTGCC	TTAAAAATGT	TTTTAACTTA	GAGCACATCT	GTACTGTTCT
108751	CCCCAAATGT	CCCATTTACT	AGTTCAGAGC	AAGATGACAT	TAGGTCTTGG
108801	GTGACTCCTG	ACCCACTATC	CTAATGTATA	TTTTCATTTT	CTACCAATGT
108851	AAGTACCCCA	TCCAATTCTA	TCAATACCAT	AGTGTCTAAA	ATTCTTGTAT
108901	TTTTCTTATT	CAGGAAATGC	TACAACCAGA	GGAACAGTAA	TGTCTGCCTG
108951	ACATATCAGA	GAAAAATGACA	ATTATGTCAT	CATCTGTCAC	TTAGGTTTCT
109001	TAATACCATC	CTGTTACAAG	GAATAGAGGC	AAAAACTCAG	CGTAGGAGGT
109051	GAGAAAAAAC	TGAGGCTGCC	ATCTTAACAG	CCTTTTCATT	GCAGAGTCTC
109101	AAAATGTACC	AAAAGATGAA	GTGGACAGTG	TCCTTTTAAA	ACAACATACA
109151	GTGTAGAATA	CAGTAACTTA	TCCCCATTTA	ATTACTCCCT	AGGTAGTGCC
109201	TAAGGATATA	CATTTTCAGC	AAGGATCTCA	GAAAAATGTG	GGGCACATAT
109251	TCTAAACACC	TGCGAGTAGC	AGAGACTTAA	AAGTTGGGAG	CAGTGCCAAC
109301	TGATTGGTTA	TGGTGCCCTA	GAGCACTGCG	TTGATGAAAG	AGATCCTCAG
109351	GCTGTGCACA	GGAGCAGCAA	GAAAGAGTGT	AAATGATGAC	AACAATGATG
109401	GCTGAATTCA	ATGGCATCAT	AAAATGAATT	CAGATTTTTT	ATATGATCCT
109451	CTATCCCAAG	CAATAGAGGC	AAAAAAAAAA	AGGCAGAAAC	CCTCTCCTAG
109501	AGTGGTAAAT	TAGGAAGTTC	TGAGGCTTGC	ACCTGAAAAA	CTTTTCACTA
109551	AAGTAGTGAT	TCTCAACTGG	GCGTAATTTT	GCTCTACTCC	TTCTCCCTGC
109601	AGAGGACATT	TGGTAATTTT	TGGAGACATT	TTTGATTATC	AGGATTCCAG
109651	CCAGGGTTGG	GAGGTGATAT	CAGCAGCTAG	TGGGTAGAGG	CCGGGATGCT
109701	AGCATGCATC	CTGCAATGCA	CAGGACAGTT	CGCACTACAA	AAAATTATCA
109751	GGTCCAATAT	TTCAATGGTG	CTGAGGTTGA	GAAACTCTGC	TCTAAGGCTC
109801	ACTCAAGGCC	TGGGCTAATG	AAAAAAGCCA	GAGAAGTCCT	TCATTCCCAA
109851	GGCAATTCCT	GTGTCCTTCA	GTGAGCAGGA	GACTGAACCC	TTTCCTGTGA
109901	TCCAGCAGTC	AAATTTTCATT	TTCAAAAACAC	AGAAGGGAAC	CTGGCAGATA
109951	GGTCACCATG	GTAAGGAGAA	GCAAGTCATG	GCTGTAGCCG	GACCTGGGAC
110001	TAAGGCTTAG	GGCCAGCACT	CTGTGAAGTT	CTGCCTTCAT	TGTTTAGCTC
110051	AGAAGCACCA	GGTTACAAGA	TCCAGTAGAA	CCTGACCCTC	AAATAATTTT
110101	TCCCTCTCCT	TAAATAGGCA	TCCTGGAAGT	GGACTAGAAC	TCTGAGCCAA
110151	TCAGAAATTA	ACTGTTTTAG	GTTATTTCAGT	TCTTTGATCT	TGTGATACAG
110201	CACACAAAGT	TTTTGGTAGA	TTCATAGTCT	GACAAAAGGA	TTCTAGACAA
110251	AATTCTAGGT	CTTAACTCCA	GCTCTGTAAC	TTTTGAGTCT	TTTGAACCTA
110301	GCCATAAATG	ACTCATATAT	AAAATAGGGC	CTACCTCACT	AGGCTAAAGG
110351	AGAAATTTTG	TGCAACAACA	TTTTGAAAAC	TGAATCATGC	AAGTGTA AAC
110401	AGCATTTAAA	AGGAAAATAC	TCAACATTCT	TTCAACTGAC	GTGTAATGAG
110451	TACTCACCAG	AGTTGAGATG	TTCTGCTAAG	CCAGGCCCTC	TTTTAAAAAT
110501	GTAATCTCAA	ACTTTATTAG	GTCTCATAAT	CACCTGGAAG	GCTTATTTAA
110551	ATATTGGCGC	CCAACCCACA	GAGTTTCTGA	TTTGTTATAA	TAGAGTTGAG
110601	GGGGGACGGG	GCGTAAGAAT	CTGCATATCT	AACAAGTTCC	CAGGTGATGC
110651	TGATGCTGCT	GATCTGGGCA	CTACATTGTA	GGAATCAATT	GGCTCTAAAA
110701	CCTTCTCTAC	CTTCCACTTC	TACATGAGCA	TACATAATCT	TGTAGCTGAG
110751	TCAGCTTGGA	AATCTATGCA	GACTAAAGTA	GACAGTTGCA	TGTCTGGCTG
110801	CTCATCTGAA	TCACCTGTGG	AATTTGTTGT	TTTTAATACA	GATACCTGGC
110851	TCTCCTACAA	GTCCCACTGA	ATTGGAGTTT	CAGGAGACCG	AAGCCCAGGC
110901	ACATGTATTT	TGCAAAACTA	CACTGAAGTT	TCTGATAATG	ACGGATATCA
110951	ACAATTTAAAC	GCTTACTTCT	TGCCAAATGC	TGTGCTAAGT	CTCCTGTAAT
111001	CATTCTTTCA	TTTAATATTT	CTAATAACCT	CTTGAGAAAG	CTATGATTAT
111051	CTTTCCAAC	TTACAGAGAG	GATAAGTGAC	GTTTTCAAGG	TAACACAGCT
111101	AGTTAGTGGT	AGAACCCTAGA	CTTGAAGCCA	AGCAGTCTGA	CTCCAAGAAA
111151	CAGGCTCTTC	ACCACAGTCT	CCAGACTCAC	CTGATTTGTA	TTAAACTTTG
111201	TGAATCACTG	ATCCAACACT	ATGAGCAGGA	CCCATGGGGA	GAAAGAGAAA
111251	AAGAAAAAAC	AGAGACAACC	TACGCTATGA	TAAAGTTATT	GAAATCAGGC
111301	ATTGGTGCCA	CTCCAGCAAG	AATGAGTGGC	TACCTTTTTT	TTAGATGAGT
111351	GCTACCTTTA	CTTTACTGAA	ATATCATGAC	ATAAACAAAG	CCAAAACACT
111401	TTCTGACAAA	AATAAAATCC	TGGTGATAAA	GGCAGTGGGA	TTTATGCTTA
111451	GCAGCAGGCT	GGATACTATC	AGGGAGCAGA	CAAAGAAGTT	TGATACAGGG
111501	CTTGTGGACT	GTGGGCCCTG	GAAGAATCTG	ATGACATGCC	CTCCAATTAC
111551	AGCTGTATCT	CATCAAAACC	ACAGACACAT	GTAAATGGAA	ATGCCAACAC

FIGURE 3JJ

111601	TTCAAGATTC	TCTGAAAGCA	GTTGACTGTC	ATGCCAACAG	CTAACATAAT
111651	AGGCTTGTTT	GCCTGAGCTT	TTGGCACGGC	CCTTTTGTTT	CCTTTAGCTG
111701	TAAATGCAGG	GACCCTAGAG	CACCTCATAG	AGTGTGTTCC	CTGCCACGTA
111751	TAAGTATTAG	ACCCACACTA	TATTGCTTTG	AGTGTAAAG	CTGAAAGAGA
111801	CCCTAGAGAT	CATTTAGTCT	ACTCCTTCTT	TTTTTATGTG	AAGGAAAATT
111851	TAGATCCACC	TTGGAAAAGG	ACTTAGAGTC	TACTATGTGT	TAGAGGCTGA
111901	GTTCAAGGCA	GAACCCAGGC	CTCCTGGCTC	CCAGTCTAGT	GCTCTTTATA
111951	GAATCCCTTT	AAAAATGAAG	TTGACTGGCC	GGGCGCAGTG	GCTCACGCCT
112001	GTAATCCCAA	CACTTTCAGA	GGCCGAGGCA	AGCAGATCAC	GAGGTCAAGA
112051	GATCGTAGAA	CACCCTGACC	AACATGGTGA	AATCCCATCT	CTACTAAAAA
112101	TACAAAAATT	AGCTGAGCAT	GGTTGTGCAT	GCCTGTAATC	CCAGCAACTC
112151	GGGAGGCTGA	GGCAGGAGAA	TCACCTGAAC	CCGGGAGGCG	GAGATTGCAG
112201	TGAGCCGAGA	GCACACCATA	ACACTCCAGC	CTGGCAACAG	AGTGAGACTC
112251	CACTTCAAAA	AAAAAAAATT	AAATTAATTT	TAAAAAAAC	CTAAAGTTAA
112301	ACCCCGCCCC	CCACCCACCG	CCCCCGCTA	TCCCTTGATA	ACAGTTATTT
112351	TGCTGGGAAC	TGATGAGGCC	AACCTGAATT	ATCAGACAAA	AAATATGTAC
112401	AAAAATATTT	TAGAAAAACT	GAAGAAAAGG	GATGCTTTCT	TGGCTAGGAA
112451	ATAAATATTT	GTATCCATAT	TCATGCCAGT	TTTGTAGTAA	TAATATTTGC
112501	CTCTTACTTT	TCTTTTCTTT	TTTTTTTGAG	ATAGTCTCAC	TCTGTCACCC
112551	AGGCTGGAGT	GCAGTGGTGT	GATCTCAGCT	CACTGCAACC	TCTGCCTCCC
112601	AGGTTTCATGT	GATTCTCCTG	CCTCAGCCTC	CCAAGTAGCT	GGGATTACAG
112651	GCACCCATCA	CCACGCCACG	CTAATTTTTT	ATTTTTTATT	TTTAGTAGAG
112701	ACAGGGTTTC	ACCATTTTGG	CCAGGCTGGT	CTCGAACTCC	TGACCTCAAG
112751	TGATCTGCCC	ACCTCAGCCT	TCCAAAGTGC	TAGGATTACA	GGGGTGAGCC
112801	ACCACGCCCA	GCCTATTTGC	CTCTTTAAAA	AAAATAATCC	CATAAGGGAT
112851	GTTTGGAAGC	GTGATACTTT	GAGTATCTCT	TGGCTGTCTC	CTTCATAGTA
112901	TTCATAGGCT	AAAGTAACTT	AAAAATGTCAC	CAACAGACAA	AAGATGCCTA
112951	ACTAGAATTA	CCTGACCACA	AATTCTTAAC	TACTAAGGGT	AAAACTTTTT
113001	TGAGGCTGAA	CTACAGGCTT	ACAATCAGAG	ACTAATCATT	GCATATCATG
113051	AAATGGAGAA	TTGTTGGTTT	AAGACCATAT	CGGCCTTGAG	GATGGACTGC
113101	AACTGGCCTA	CAAGAATTAA	CAGACTAATT	GGGTGTTTTT	AGTTAAAAGC
113151	ATGATTGTGC	CACTGGGTTG	AATGGGACTT	AACTTTCTGT	GTGGTTCTTC
113201	TCTCTCTGCA	GGGCACGTGC	ACATCACAGA	TTTCAACATT	GCTGCGATGC
113251	TGCCCAGGGA	GACACAGATT	ACCACCATGG	CTGGCACCAA	GCCTTACATG
113301	GGTATGGGTT	TCATGAGTGT	CTTTTTTTTT	TCTTTCCTGT	AAATACCATT
113351	TATTACAGGT	GGAATCATCT	GTGGGGATTT	GCAGCTAGAA	CTGGTAAGTT
113401	CCTCTCTGAC	TTTACCTGTG	GAGCTTCTGA	TTTCATGGGT	CTTCTCCACT
113451	AGCAAGCACC	CAAGATGACT	TTGATAGGAA	AGGACCATTG	ATTACATTTT
113501	GAAAACCTAC	TTCTGTGTGC	AAGGAAGACC	GTTTGTACCC	ACTTCCTAAC
113551	AAAAATATTA	ACTAATTCAA	TAAATACCTA	CTAACTGTCT	CTGTGTGCTT
113601	AGCACTGTTT	CAGATGCCGG	TGACCCTGTA	GAAAGCAACA	CAGACAAGGT
113651	CTTCAGATCC	TGGAGCTTAC	ATTCTAGTGG	GAGCAGATTT	ATAAAAAAAA
113701	AAGAACCAAA	CAAGGCCCGG	CATGGTGGCT	CACGCCTGTA	ATCCCAGCAC
113751	TTTGGGAGGC	TGAAGTAGGC	AGATCATGAG	GTCAAAAAGAT	TGAGACCATC
113801	CTGGCCAACA	TGGTGAAACC	CTGTCTCTAC	TAAAAATACA	AAAATTAGCT
113851	GGGTGTGGTA	GCATGCGCCT	GTAGTCCCAG	CTACTCGGGG	GGCTGAGGCA
113901	GGAGAATCGC	TTGAATCTGG	GAGGCGGAGG	TTGCAGTGAG	TCGAGATCGC
113951	GCCATTGCAC	TCCAGCCTGG	CGACAAAGCG	AGATTTTCGT	TCAAAACAAA
114001	CAAAACAAACA	AACAAACAAA	GAAGTAGGAA	ACAGTAATAA	GCAAAATGAT
114051	AATAAGTGCC	AAAGTATTAT	TTTAACCAT	ATTTACATAA	TACTGCATTA
114101	CATACATAGA	GCTATAAACT	TTACAAAATA	CATTCCCAGC	TATAATTTTA
114151	GATTTACTTG	TAGTGCCACA	ACAATCCCAT	GAATTCTTCT	GTTTAAAGAT
114201	AAGGAAATTC	TGGAGCTGGA	TGGTGGCATG	CATCTGTGGT	CCCAGCTGCT
114251	TTGGAAGCCA	AGGCAGGAGC	ATTGCTCGAG	TCCAGGAGTT	GGAGGCTGCA
114301	GTGAGCTATG	ATCATGCCAC	TGTAATCCAG	CCTGAGTGAT	AAAGTGAGAC
114351	TCTGTCTCTA	AAAACAAATA	AATTATTTTT	AAAAATAAAT	AAAGGTGAGG
114401	AAATTCTGCC	TCAGAAAAGTT	TAAATGTCTT	TGCATTATTT	TGTGTGTAGC
114451	GAGGTGAGGA	ACTGGTTTTT	GCCTTGACAA	TTCAGCATTT	ACTAAGGGGT
114501	GACCAAAAAG	AGAGTGTTAG	ATGCAAAATT	GTCAGTTGGT	TTCACGTATA
114551	GTTGTGGTAA	CAAATCAACT	ACAAAACTC	TAAGTTCACC	TGTTGGGAGC
114601	AGCCATCTAT	ATAGACACCA	GAAGTAGTTG	TAGCAGAAC	CAGCTTTACT
114651	TCCCGTCCAG	CCTCAACAAT	GCAAGGAGAG	AGCTAGTGTC	CTCGAGGGGG

FIGURE 3KK

114701	CACACAGTAT	TCAGAAAGAG	GGAGTTCTCC	CTCCCTTTTC	CCTGTGGTTG
114751	CTCCTAAGGC	AAGTGAGTCA	GATCTCAAGA	GAATTATCTG	TAAACTCTTA
114801	GAGTGAAGTC	AAGAAAAGAT	ACCTGGAATT	TAATTCTTGA	TTAGATATCT
114851	GTGTAGTTAC	TGGACTTGTTG	ACTGGTCCTG	GAGTTAACAC	AGCCTGGTTG
114901	GCCATGGAAG	TTTGATGAGT	TTGGGGGCTA	GTCTTTCTGG	GGATCATAGC
114951	AGCAGGAGAC	AGGTATGCAG	TGAATGTGAT	TTGTCTTGGG	GAGAAGGGAG
115001	GTGGATTAGC	TACAGGCTGT	GATCCACCTT	CACATGGGAC	CCTCCAATGA
115051	CCAAGAATAT	AGCCTGGAAG	GGAGGGAGGC	TCCTGTCAGT	GTGACTTCCT
115101	GAACACACCA	CAAGTCCCAA	TAGAGCTCAA	CATATCAGAA	TCACTGAGAG
115151	TGGAGTCTAG	GCATAGTGTG	ATTTAAAGCT	CTTAGCGTAA	TTCTCCGTG
115201	TAGCTAGGAG	TCACAACCTC	CACCACAGAC	CCCTAAAGAG	AGATTACTCT
115251	GCAGGGTAGC	ACATGTGTGA	GGACCCCTCT	GCCTCGACTA	CCCTTCTTTC
115301	ATGTCCTAAA	ACAAATAGTG	CTTTCTAGGA	AAAGATAGAA	GGACGTGTGT
115351	GAGAGCCAGA	TCAATCCTCC	ACCTCCATAC	CGGGGTGGCT	GAAACCAGCC
115401	CAGCAGGGTG	AGTGAAGGAG	CTTTGAATCA	GATATAAGAA	TAGTTTTAAA
115451	ATTCACAGAA	CTGAATTGTA	AAGCATCTAA	AGTAAATGTA	ATAAGCAAAT
115501	AGGACTAAAA	CTTATTAGGC	AACAGACTGA	GATATCATT	GGCGAGCTCC
115551	TTATCCAGCA	AAAACAGGAA	GTTAGACACT	GCACAGTTGC	TGTCAAATGA
115601	CAGAAAGACTA	AAAATACTC	ATGCTTGGCG	GGGTGCGGTG	GCTCACACCT
115651	GTAATCCAG	CACCTTGGGA	GACCGAGGCA	GGCGGATCAC	AAGATCAAGA
115701	GATCGAGACC	AGCCTGGCCA	ACATGGTGAA	ACCCCATCTC	TACTAAAAAT
115751	ACAAAAATTA	GCTGGGCATG	GTGGCGTGCA	TCTGTAGTCA	TAGCTACTCG
115801	GGAGGCTGAG	GCAGGAAAAT	CACCTTGAACC	TGGGAGGCGG	AGGTTGCAGT
115851	GAGCCGAGAC	TGTGTCACTG	CACTCCAGCC	TGGCGACAGA	GTGAGACTCC
115901	ATCTCAAAAG	AAAAAACAAA	CAACAACAAC	AACAAAAAAC	CTACTCATGC
115951	TTTACCCTAA	TTAGTTAAGA	TGCTTAAAGC	AGGTGATGTG	GTGATGTTGC
116001	TGTTTTAACT	GGTGGGATTA	AGTCGGGTGG	AATGAATTGT	TTCACTAGA
116051	TATGGTCAGA	GTAATTCAAA	GGTAAAATAT	TTCAACTTGA	AATCAAGGAC
116101	AAGAGCAATG	CCATTTTCTT	TTAATATTTT	ATTCTCTTCC	CCCATGTAAC
116151	TAGAGAGAGA	GAGAGAGAGA	GGAAAAGAGA	ACCCCTACA	TGCAGAGCCA
116201	CCTCACTTTC	CAACAGAAAT	CTTCTATGAG	AAAAAAAAT	GAGCCTTATT
116251	TTCTATGATA	TTTGAACAAC	TGCAAATTTT	ATGGCTTTCA	ATTACCAGTG
116301	GGGGGAATAA	ATCTCTTTTG	TCACTTCTAA	AATAATGGAC	ATATATAATT
116351	CAGCCTATTT	TCTGCCTAAA	ACCTATGGTA	CTCAAATGAT	AAAAAAGCAT
116401	ATCCAAGCCT	GCTGCTCTGA	TGAGTTTATT	CTCCAGGTTT	CCTGGGTTTC
116451	CATATTAAGG	GCTATTTTCT	TGGAACCAAA	TCAGAAAATG	TGCATCTGGG
116501	TTTCAGGGT	TGGTTTCCAT	GGTGAGAGAA	GTACGGGGAG	GCCACCTTTC
116551	TTTCTCTCTC	CCAGTGGTTT	TAAGTACAAT	ATCTGTATAA	TGTAATTTT
116601	TCAAAGTTGG	CATTTCTAGT	CTTCTCACAA	GATAGAACTG	GGAAATTGGA
116651	ACCTAGGAAA	AATTCTGTGC	ACCTTCCACT	TTTACCCTTG	TAATTAACAA
116701	TGACTAATAT	TTCTTGAAAT	CTTTCCCTGG	ACCAGACAAG	GTGTTAAATG
116751	TTTTACATTC	ATTTATTTGT	TTATTTTCT	CAGCAGCCCC	ATGGGGTGGA
116801	CTATACTTAT	CACTACTTTA	TAATGAGAAA	AATCAGAAGC	TAAATAATTT
116851	GGCCGAGATC	ACATGGCTAA	TAATTGAAAA	GTCTAGATTT	AAATCAAGCT
116901	CTGTCTGATT	TCAGAAATCA	AGCTTTTTCT	TAAAAGGAAG	ATTAATGAGA
116951	AATAAAAAATA	TATATTTGTA	AATATTTTTA	TCTGTGGTTT	TTAAATGGTT
117001	CTAAGTCAAC	TTAGTTAGGC	TAACATATTC	GAAATGTTTC	TTGCCTTATT
117051	CCAAAATGAT	TATGTGATTG	CCCACTCCT	CCTTTTGGAT	AGGAGTCTTT
117101	CCCAGACGTA	TTGTGGGTAG	AAGTCTGCTG	TCTCTTTTAA	AAAATTATGC
117151	TCCCAATGGT	TTGGTAAAAAT	CTACCAAATC	TATCAGCACC	CATTTTATAG
117201	TGCTTTCATA	GGATACTAAG	TAGCAATTCA	CCAGAAAGAA	CAAAAAGAAT
117251	TCTAAAAAGA	AAGAAAACTA	ACCAAAATAC	TGAATGAAGA	TTGGAGAAAT
117301	ATTCATCTAC	TAATACAAGA	TGCTGAGCAT	ATTTTAAATC	AGTTCCATAG
117351	CTCTGTAAAT	AATAAGACAG	TATGCCAGTT	CTTCACCACC	TTCCATCAAG
117401	CAAGGAAAGT	TTTGCTTTTT	ACAATTTATT	GTCTCTTACC	TCTGTGCTCC
117451	CTCTGGTCCC	TCCATTATTC	CTTCTCTCTT	CTCCTTTGTC	TGTATGAATA
117501	TAATCCAGAT	TACTTAGAGT	TAACCAATTA	AAACCTTCTC	CGCCGGGCGC
117551	GGTGGCTCAC	CCTGTAAATCC	CAGCACTTTG	GGAGGCCGAG	GCGGGCAGAT
117601	CACAAGGTCA	GGAAATCGAG	ATCATCCTGG	CTAACACGGT	GAAACCCCGT
117651	CTCTACTAAA	AAAAATACAC	AAAAAAATTA	GCCGGGCGTG	GTGGCAGGTG
117701	CCTGTAGTTC	CAGCTACTCG	GGAGGCTGAG	GCAGGAGAAT	GGCGCGAACC
117751	CGGGAGGCGG	AGCTCGCAGT	GAGCAGAGAT	CGCGCCACTG	CACTCCAGGC

FIGURE 3LL

117801 TGGGCGACAG AGCGAGATTC CGTCTCAAAA AAAATAAAAT GAATAAAATA
117851 AAAATAAAAA ATAAAAATAA AACATTCTCC TCCAAATTAT ATATGTATGT
117901 ATGTGTATAT ATGTATATGT ATGTGTGTGA GTGTGTGTGT GTATATATAT
117951 ATATATATAT AAATAAGTTC ACTATGGACT AGCAAGCAAA AGGAAAGTAA
118001 TAATCCCTTT GCCAATAGAT ATTTATGGTT TATTTCCAGA CATTITTTCC
118051 TAAGCACAAA CACATACTGT TTACATTTTT TAAATATTCG ATCATGCTAA
118101 ATGTAACCTA AATTTTCATT TTATAATGTA ACAATAATGA TAGCATCATA
118151 TAGTGAACAT TTATTGTTCC AAGCACTTTG CTAAGTTTTT AACATTTATT
118201 ATTAAACTCT CAACCCCATTA AAATAGGTTT TACTATTGTT TAGATTTTAC
118251 AAGTTAAAAA AAAATCAGGC CCAGAGAGAG AGAAAGTGAT GTGTTTCATA
118301 TCACACAGCC AGTGATTGGC AGAGCATGAA ATTTAAACCCA AGTCTAGAAA
118351 CATGCCGTGC CTGAGACATG GACGATGATG TGACAATGAT GAAGGTAGAA
118401 TGTCTGACAT TGCTAAGCTC TTCCTAAATG TTAAGCACTG TTGTAAGTGC
118451 ATGCATTGTC ATTTAAACTA AAAACAGTTC TGTGAGGCCA CTAATATCGT
118501 TACAGTTTTA TTATTGCATA ATATATTAAC ATATAATTAA TGTAGTATAT
118551 TGTATATATA GTACTATTGT TATAGTATAT ATTGTTCTCA CTTCAGAAAT
118601 TAGCAGACTG AAAGGTTAAG AAACCTGTTG ACTGTGAAGC TGGAGACAGT
118651 CATAGGGGTC TGATGCCAGA GCCCTAACTC TTAACATGCT GCAGTACTGT
118701 CCCTTTGTTC ATGTCAATAA ACATGCCTCT GCTAAAATAG AAACCCACTT
118751 CTCTTAATCA ATTTTTTATT GTTGAATGTT AGGTTGTTTC TCATTTTGAA
118801 ATACAGATAG AGCATCCCAA ATCCAAAATG CTCCAAAATC CAAAACATTT
118851 TGAACACCAA CATGACACTC AAAGGAAATG CTCATTGAAG TATTTGGAT
118901 TGATTTGGGG ATTTGGGATG GCCAACCAGT ATAGTGCAAA TATTTCAAAA
118951 TCTGAAAAAA AAAATTGAAA TGCAGAACAC TTCTGGTCCC AAGTATTTCA
119001 AATAGGGGAT ACTCAACCTG TACATTTAAA TTTGTAGTAA AAATCCTGTT
119051 AGCAGAATTA TGTCTGGGAA CTTAGTTATT TCTTTGTGAT AAATTTTCAT
119101 TCAATAATAA TAGTGATTC TCTTACTGAA AATCACTCAA AGAAAAATTT
119151 GTGTTCTCAC CACAGAAAAAC AGTAATGTGG GTAATGTGAG GTAAGGCACA
119201 TGTTAATTAG CTCTATTGAG CCATTCTAAA ATGTATTTAT TTCAAAAAAT
119251 AGTGTCAAT ACAAATATAG CAATTTTAC TTCTTAATTA AAATTAATTA
119301 ATTTGATTAA TTAAAAGAGC AAAAGAATTT CTGGTCAAAG CCTTTACATG
119351 TTAATAGATT TCTGTTCTGA AAATTCATAT TAACTTGATC TTGCTCTGGA
119401 AGTGTCTGAA GATATTCATT TCCCTGCATT CTTATCAGTG CTACACTATC
119451 AATATCTTTA ATGTGCCCAA AAAAGGTAGG TAAAAATGAT ATGACATTAT
119501 GATATTACCA CAGTATTTCT TTGACTTCTT TTGTCAATTG CCTGTTCAAA
119551 TTCTTTGCTC ATTTTCTATT AAGGTGTTAA TACTTTTATC CTATTCCAAT
119601 AGTTCCTTAT GATTATATAA ATAATTCCTG CTTTITATAT ATTTGGAATA
119651 TGAAATCCTA GGGTATCATA TTTGTTGTAC ATTTTATTAC AAATATAATT
119701 TCTCATTTTT AATTTGTTGC TGTTTTATGG CCTAGTTTTG ACATGAAAAG
119751 CTTGCTAAAA ATATTATCAA GCCACTCATC TTTTACTTIT GCTTTCTAAC
119801 TTTGATGCTT TTCTTAGCAA GACCTTCTTA CCAGATTTTA GATGTGTTTG
119851 CTTAATATTT TTATTCTGAT TATGGTTTCA TTTTTTTACT TAACTCAGTT
119901 GTATATTATT TTGACTGAAC GGATGTGGCA AGGATCTGAC TTTATTTTTG
119951 TATGATTATT AAATAATTGT TTTGAGACTA TGTATTAAT AAGTCCCTTT
120001 CCATGCTGAT TTGAAATATG TTCATCATAA ACTAAATACA TTTTGTGCT
120051 AATATCTATA TTCTGTAGAT TTCAAATCTT GTAGCTTTAT AGGTTAATAC
120101 ATGGGATGCG GGACTCTTTC TTTATTCTTT TCCAAAAATA TTACTTCCAC
120151 AATTTTTTTC TTGTAGATGA AATTTAGAAT CATTTTTGTA AAGTTCCATG
120201 AATTAATCCC ATTAATGTGA TAGATTAGTG TTGGGTCCTT TTCTTTATGT
120251 CCTGACCAAA ATTTAATACC CACGTTTAAA AAAATCTGAA AACCAAATGA
120301 TGGAAATCCA AATATTTAAT AAATATATTA AAATGTAGTC AAGCTTATTA
120351 GTAAACAAGA CAATGCCAAT TTAAACCACA GTGAAATACT ATTACACACT
120401 CACCAGATTG GCAATAAAGG GTCAGTTATT GCCAAGTGTG GGTAAGGATG
120451 TTCAACAAAA GGAACCCTGA TCTAATACTG GTCATAGTGT GAATTTATAC
120501 AACACTTTGG TAAATAGTTT GGAGTTACTG TGGTACACAG AAAAGTTACA
120551 CATTCTTATC ACCAACAGTT CCCCTGCCAG GAATACACTC TAAAGAGATA
120601 TGCACCTATA GGAATACTCA CATGTATAGG AACGTTCTAT ACAGCATTGT
120651 TCACAATAGT CCCAACTGA AAATAACCCA AATGGCTATC AACAAATGGA
120701 TAGGTAGGTA AATTACAGTA TATTCATATA GCACTAAAAG TGAACAAACT
120751 TAACTACATG TAGCAACTTG GATAAATCTT ATACACATAC CATTGAGTAA
120801 GAAAAGTAAG ACACCAAAGA ATACAAGGAA TACGATTGTA TTTAATAGGA
120851 TTTAATTTAA TGAATTTAA TAGAATACAA GGCATAGATT TTTTTTGTCT

FIGURE 3MM

120901	TTGTTAGTGT	TTCCTTTATT	ATAAAGCACT	GAAATAAATA	AATAGGTAGC
120951	TAGCCAATTT	ATCCACAGTT	TCTGGGAGCT	ATATAAGATA	GGCAAAGCTA
121001	AACTATTGTC	TAAAAATATG	TACATAGATA	TTGATCTATA	TAGAAAAACA
121051	AGAAAATTAT	TAACATAAAA	TTTAGCACAG	TGACTTCTAG	GGTTATGAAC
121101	AGAACAGGAC	ACAGTGATGG	GGACAAGATT	CTATTTCTTG	ACCTGTATCA
121151	TGTTTATGTG	GACATTTGCT	TATAACTGTT	TGCTAATTCT	GCAGTGTTTT
121201	ATTTACTTTT	CTGAATATAT	GTATAGAAAT	ACATAATGAG	CAATACCAAA
121251	CAAAATACTC	AGTGGCTTTT	TTGAAGGACA	CTTAGCCCTT	CTCTGACTCT
121301	CTTAGTACTC	TCTTAGGTGC	AGGGAATCTT	CTGGAAGGGT	TGGTGAAAGC
121351	CCTTCAATAT	CTTCCTGCTC	TGGTTTCTCA	GCTATTTGAG	GGCTCAAATA
121401	ATTACTCGTC	TGTTATGTTT	TTGTATGTTG	TCATAAGGTT	TCTTCTTAAT
121451	GTTCCACCAA	AATGCTTCAG	TGCCTTG CAT	ACCATGAATA	TTTTCTGAAT
121501	GAATAAATGT	GTATTAATAA	GTTTTAATGC	CTGAAAATAG	ACCAGGTAGA
121551	AGAGGATGAA	AAAGAATACT	GGATAAATAA	AGCTGGAAGA	AAGAAAAGAA
121601	GTGAAAAGAA	TACTCATGTA	AACCCCAAGG	ATAATCCAAT	ATGACAGATA
121651	CATAACTTGT	ATAGAGTAAT	TTTATTCTA	TTAGGCATTT	TCTTAGCACA
121701	GTGGCTCTGA	TTATCCCTCA	AAGTTCCTTG	TAGCTTCTCT	GAGTGACGTG
121751	TCTGTCACCC	ATCACCTGGG	GACTATCTGA	TATGACTTGT	TGTGAGATAC
121801	TGAGAAGGGA	GAGCAGAAAT	ATAGTCCATC	CTGTCTGTGG	GAGTAGTGTG
121851	GGGTCAAGGC	CATTACCTCC	CAAATTGCAC	TGGGGGCTGT	GACTTGCAGA
121901	AAGGATGCAG	TGATT CATGA	AAGGTGAATG	CACTAGGGAA	ATAGCCCTCC
121951	TTATTCCTGC	TGCATCAAGC	TCTTATAGTC	AGGGCCAGTC	CCGGGCATTG
122001	GGATGTAAAC	ACTCTACCTC	TCTAGTTGGA	TGTTGTTTAC	AGGATTTTAC
122051	TTAAAAAGAA	CATGAGTGCA	CTGGGTAGGG	AAAACCTGTG	TGTGCAGGAC
122101	CCATGTCATA	CCAGTTTCCT	TTGCCAGAG	CCAGCACTTT	ATACAGGAGG
122151	CTTGGGATCA	ACCATACAAA	TCTTTCAACT	AGGTCAATTA	TTATGAATGT
122201	TTGCCTCTCT	AGAAGCCTAC	CCAATGTTTC	TGAGCACTTT	ATAAGTGCTA
122251	GGCACCATAC	TGAGATTTTG	ACATGGATTA	TCACTGTAA	TTTCTAACTC
122301	TATAAAGATT	GCCTTATTGG	CTGGGTGCAG	TGACTCACAC	CTGTAATCCC
122351	AGTACTTTAG	GAGGCCAAAG	CAGGTGGATC	ACCTAAGCCC	AGGAGTTCAA
122401	GACCACTCTG	GGCAACATGG	CAAGACCCTA	TCTCTACAAA	AAGCACAAAA
122451	ATTTTACCAA	ATGTGGTGGT	ACCCACCTGT	AGTCCCAGCT	ACTTGGGAGG
122501	CCAAGGTTGG	AGGATCACTT	GAGTCTGGGA	GGTCGAGGCT	GCAGTGAGCC
122551	ATGATTGTAT	CACCTGCAATC	CAGCCTGGGC	AATGGAGTGA	GATTCTGTCT
122601	CAAAAAAAAAA	AAAAAAAAAGA	AAAAAAAAAAG	AAAGAAAGAA	AGAAAGAAAA
122651	AAAAGGAAAA	GAAAAGGGAA	AGATTGCCTT	ATTGTTCTGC	TTTTGCTGTT
122701	TCTCAGGCTC	TGCCAACTTG	CTCAAGGTCA	CAGTAAGTGG	TGAAGGTAGA
122751	ATTTGAACCC	AGAGAGCACA	GCTCCAGAGC	TAATGATCAC	AACTATTGCT
122801	TGAGCAATTG	ATTTGTTTAT	TCATTCAACA	AATTTCTCTC	CAGTGATTCT
122851	GAATGCCAGA	TTCTGTATTA	GACAGTAGGA	ATATGGTGGT	GAGCATGCAG
122901	AAGCATTCCC	TGCCTTTGCT	TTGTGCTTCA	TTCTCCCTAT	TACATCCCTC
122951	AGGAGTTAGG	TTTATTCTTA	GAAGGGTAAG	TAAAAGGTTT	ATAGTGTGTC
123001	AAAGTGCTTA	GAGAATGCAT	AACTTGGGGT	CCTCTCTGGG	GGTAAATTTG
123051	ACTGTAGCTC	TGCCTTCCAC	TGGAATCAAT	TGAAAGAACT	ACAGTTACAA
123101	AGTGTAAGA	ACCCACAGCT	GTTGTAATAA	CTTACACTCT	CCAGAATGCT
123151	TGCTCCCTCT	TTTCTCCCTC	CCTCATCCCC	AACAGATGGC	TGCAAGTGCT
123201	TCCCTTGCTG	CTTCCAGGTG	ACTCTGAGAT	AGAGAGATTA	TCCAATGTAT
123251	GCTGTACCAA	ATTCTGCACG	TTGTCTGCGA	CTGTTATAGA	AATTTAGATC
123301	CTTTAGTTGA	AACCTTCCCA	ATCAAAACAA	ATAACATCTT	CTTAGCCTTC
123351	TTGATTTTCA	GGTGAGCCAC	ATATTTGAGG	CCCAATAGGA	CCCAAATTTT
123401	AATCGGTGCA	TGATCTAAAT	AAGCGAAGAG	TTTATCCATG	AAGGCCTATG
123451	CATGCCTGTG	TGTGTTGACT	GATGAATGAG	GCTACTGAGA	GAGATTAGAA
123501	AATTAGAAAT	GTTTGCCTGC	TGTGAGCAAT	CTAGCAACGG	ATGATAAACA
123551	TCCATAAAAG	TGTTTATATT	TTTGATCTCT	GTAATTTCTC	TTTGAGGAGG
123601	CATGTTGAGA	AAATATAATA	CTAATGTCTC	AGGGAATCAA	ACTGGTTTAA
123651	TTTTTCGTGT	TTTTCAGCAC	CTGAGATGTT	CAGCTCCAGA	AAAGGAGCAG
123701	TCTATTCTTT	TGCTGTTGAC	TGGTGGTCCC	TGGGAGTGAC	GGCATATGAA
123751	CTGCTGAGAG	GCCGGGTACT	GTAGTAGCAT	TTCTCTTTTG	GTTATTTTTT
123801	CAGCAAGTTC	TATTTTAGAA	TGAAAGAATG	TATTGTTTGC	TAAGATCCAA
123851	GCAGTTCACT	TGAAAGCTGA	AATCAGCTAT	GCCATGTGAT	GTTGATAACA
123901	CCCCTTGAGA	TTTCTGCATA	GGTTAATTCA	TTTGTCCCGC	ATATGGGACC
123951	AACCATGTCA	ATTACCATTA	AATTACACAG	TTAAAAGTAA	AGGAATAATA

FIGURE 3NN

124001	TGGATATTAT	AAACTCCCAA	AGAGGGGAAA	TCAATACACC	TCACTAAATA
124051	TCTTGTGTAA	ATATCTGTGT	TTGTTTAAAG	AAAGTCATTT	TGCAGTCATA
124101	GTACAGGACT	CTAATTGAGA	CATACCTCAC	CAAGGCTAGT	GTGAATTATT
124151	AATACAACAC	AATTGATGCT	CTGTCTTGTT	GGATTTCTAT	CACTTGGCTC
124201	CTGGGTTCTG	GGTTCAGTGA	CAAATTAGAG	TCATTTCTTT	TTAAAGGAAA
124251	CATTTCTTAA	ACTAAGAATC	TCTTTCCAG	AAAAAGAGA	TGAAAAGAAA
124301	GCAAATATGC	TGAAACATAT	TTTATACAAT	TTGTGCAAAC	TATTACATAA
124351	TAGAAATACA	CTCCTTAGGT	TATATCTCAG	TCAGCTCTGC	TTACCATAAT
124401	AAAATACTGC	AGACAGGATG	GCTTAAATAA	CAGACATCTA	TTTTCTTGGT
124451	TATGGAGGTT	GGAAGTCTGA	GATTAAGATG	CCAGAATGGT	TGGGTTATGG
124501	TGAAATCTCT	TTTTGGCTTG	CAGATAGCAG	CCTTTTTTCT	GTGTCCTCAC
124551	ATGGCAGAGA	GAGATCTTTG	TCTTCTTATA	AGTCTACTAA	TCCCATCACG
124601	AGGGACCTAC	CCCCATAAAC	TAACCTAACC	CTTATTCCCT	CTCAGAGGCT
124651	CCATTTCCAA	ATACCATCAA	ATTGAGGGTT	AAGGCTTCAA	CATCTGAATT
124701	TTGAGTGGA	CACAAACATT	CAGTCCATGA	CATTCTATCC	TTGACCCCTC
124751	CAATATTCAT	GTCCTTCTCA	TATGCAAAAT	ACATACATTG	AACAGTCCCA
124801	AAAGTCTTAA	CTTATTTCCA	TATCAACTCT	AAAGTCTGAA	GTCCAAAATC
124851	TCATCTAAAC	ATCATAGAAA	TTGTGTATGG	GTGAGACTCG	AGGTATGATT
124901	CATCCTAAGG	CAAAATTTCT	CCTCAGCTAT	GTACCTATAA	AAGCAGACAA
124951	GTGGCCAGGC	ACTGGCTCAT	GCCTGTAATC	CCAACACTTT	AAGAGGTAGG
125001	AGGCAGGAGG	ATTCCTTGAG	CCCAGGAGTG	TGAGACCAGC	CTGGGCCACA
125051	TGGGAGACCC	TGTGTCTACA	ACACCTTTTT	TTTTTAATTA	GCCAGGCATG
125101	GTGGGGCAAG	CCAGTGGTCC	CAACTACTCA	GGTGGTTGAG	GTGGGAGAAAT
125151	CACTTGAGCC	CAGGAGGTAG	AGGCTGTAGT	GAGCCAAGAT	CATGCCACTG
125201	CACTCCAGCC	TGAGCTACAG	AGTGAGACCC	CATCATTAAA	CAAAACAAAA
125251	CAAAAAACAA	ACAAACAAAA	AACAAGCAAG	TTATGTGCTT	CCAAAATACA
125301	ATGATACCAT	AGCTGTGGGA	TAGAGAATCC	CATTCCAACA	TTTCAAAAGA
125351	GAAATGGGAA	AGAAGGAAGG	GGCATCAGCT	CCTAAACAAG	TCCAGAACAT
125401	ATCAAAGCAA	ATTCTATTAT	ATCTTAAAAAC	TCGAGAATAA	TCTTCTTTGA
125451	GTTGTTGGTT	TGCCCTCTAG	ATCTACACAG	GCATGGGAGC	AATCACTCTC
125501	ATGGCTGGGG	ATGGGGAGAG	GGGACTTGCT	TAAGTGGCTC	TCTACAAAGG
125551	CACTACCCAC	ATGGCTCTCT	GTGAAGGCTC	TGTCTACACA	GCTCTGTTGA
125601	GTGGTGGTCC	TGCCCTTCGA	AACAGAGGTG	GAGGCAACCC	TGCTCCCCAA
125651	GCCAGTGCAC	TCTGGACCTG	TAGTGGGAAT	GGCAGCCCTG	ATGATCTGTG
125701	AATCGCCCTC	ATGATCCTTC	TTCTTTTAC	TTGAAGGATA	GCACATGTTT
125751	ACAGCTGGAT	AGCATTACGG	TCCAGCCTG	TAAAATCCAA	GAAGTCTGAC
125801	AGCCTTTCTT	CATAAATTCA	AACTGGCAGC	ATCTGCTAGT	ATAATCCCAT
125851	CTTTATTTCT	AGCTTCTGTT	GTGATAACTA	CTTGATTGTT	CAGCTACACT
125901	CTAGTGTGCT	CTTCAGAACA	GGCTTGCTCA	TTTTCTGCAA	TATGGATAGA
125951	AATCTTCAAT	TTCTGGTTGC	TTTTTGCTTA	ATTATTTTTT	CTTCAATTCA
126001	AACATTTCCCT	TTAACATTTT	ACTATAAGCA	GACAGAAGGA	ACCAAGTTAC
126051	TCCTTCAAAG	TTTTGCTTAG	AAATCTCCTC	GGCTGGCCTG	GTGCAGTGGC
126101	TCATGCCTAT	AATCCCAGCA	CTTTAGAAGG	CTGAGGCGGG	CAGATCACCT
126151	GAGGTCAGTA	ATTCGAGTCC	AACCTGATCA	ACATGGAGAA	ACCCCATCTG
126201	TACTAAAAAT	ACAAAATTAG	CCGGGCATGG	TGGTGGATGC	CTGTAATCCC
126251	AGCTACTCAG	GAGGCTGAGG	CAGGAGAATC	ACTTGAACCT	GGGAGGTAGA
126301	TGTTGCAGTG	AGCTGAGAAC	ACAACATTGT	ACTCCAGCCT	GGGCAATGAG
126351	AGCGAAACTC	CATCTCAAAA	AAAAAAAAAA	AAAAAAGAAA	TCTCCTCAGC
126401	TAAATATCTC	ATTTATCAC	TCACAATTTT	TACCTTCTGC	AAAATAGTAG
126451	AACACAGTTC	AGACAAGCTC	CTTGCCACTT	TATAACAAGA	ATCACCTTTC
126501	CTCCAGTTTC	CAATAACATG	TTCTCTATTT	CTGTGAGACC	TCACCAGAAT
126551	CACCCTTAAT	ATCCATATTT	CTAGTGCATA	CATCCACAGT	CTTCCAGCTC
126601	AATAAGTAGT	TCCAAAGTCA	CTTCCACATT	TTAAGGCATT	TGTTCCAGCA
126651	GCATTCCAAT	TCTCAATACC	AAAATTTTAG	TCTGCAATAT	CTGCCTTCAC
126701	AAAATACCAC	AGAATTGGTG	GCTTAGGCAA	CAGAAAATTTA	TTTTCTCAGT
126751	TATGGAGTCT	AGAAATCTGA	GATTAACGTG	CCATCATGGT	TGGGTTCTGG
126801	TGAGGGCTTT	CTTCCTGACT	TGCAGACAGC	TTCTTTCTTG	CCCTCACATG
126851	ACGGAGAGAG	AGATAATCTC	TTTTCTTTCT	TTTTGTAAATA	AGGCCACTAA
126901	TCCTATCCTG	AGGGCTCCAC	CCTTATGACC	TAATCTAACC	CTAATTACCT
126951	CCCAAGGGCT	TCATCTCCAA	ATACCATCAT	ATTGAAGGTT	AGGGATTAAA
127001	TTTAGAAATT	TTGGGGGGAT	ACATTGAGTC	TGTAACAGGT	TGTATACTCT
127051	CAAGGTCCCA	GTGATGGATG	CAATCAGTGA	TTCCTCTAAG	ACCAAAGAGT

FIGURE 300

127101	TGAAGACCTG	ACTTTAGGAG	CTTGTTTATC	CCACAGAACT	AAAGAATTGG
127151	GTATCTCAAG	TCATCATCCA	GATACTGCAG	CTCTCCTCTC	CTAACTTTTT
127201	GGAGTCATTC	TTTCTGCTGC	TGTCAATAGC	CCTCTTCTTT	GGTCCCACAA
127251	CACACCATCA	TGATTTCTGC	ATTAAAAATG	CCATCTCCCA	AGTAATTAAC
127301	CTATTCACAG	TAAGAACAGT	TGTTAGAAGT	TGGGGTTATT	TCATCATGGT
127351	CCAATGGCTT	TATCTTGCTC	AGGAAATCAA	AGATGAGTGT	TTCTAAAGCA
127401	AAAAAAAGGA	GGATCTCACA	ATTGTATCTG	TTTCATTAC	TCTGCAGGGT
127451	CCATTTTACA	CCCAAACATT	CATTAGTTCA	TTGTTTGTAC	TCCTGCCTTT
127501	CCTGAGGAAG	TCATTGTAGC	ACTATTTCTT	AAGTATATTC	AAATTTGGAT
127551	AAGTTAGTCA	AATTGATGTG	AAAGGACCAC	CCTTGTAAGC	CAAATGTGTA
127601	AGTCCTACAT	AGGGATATTA	CCTGTTTTTA	TCTCCTGATG	GGCTTTTTTT
127651	TTTTCAAGTT	TCTAAATAAA	TCCAGTGAAC	AAGTAGATAC	GCTACTCATG
127701	ATTATATAGG	AAAACAGAGA	AGAGAAACAT	ACACTTACTT	AAAAGTAGAA
127751	ACATATCTGC	TCTTTCCAC	TTCAACCCTTA	ATTTTTTTCT	CCCCAGCCAA
127801	TTTACTCACC	TTCTGTGGCT	GTGCTTCTGT	GTTAGACCCT	TGCTAGCTGC
127851	TTCTGGGGTT	CAGAGCAATT	GTGCTCTGCC	CTCATCTTTT	ATGACACACC
127901	TAGCAAAACA	GAAGCAGAGG	AGCGAGTTGA	AACAGACAAA	CGACTATCTG
127951	TTATTCTTCA	AACATGCCTA	GGATTGTATT	TAACATCAC	CTATCTAAAA
128001	GAGGTATTCT	CGCCTGCCTG	GAAAGAATTT	TGCTAAGAAA	ATTGTTTCTC
128051	TTCTTCCCAT	ATTATTTTAC	CTCTATGCTA	GTTCCCTGTG	ATTTGATATG
128101	TCAACTTTGA	CAAATTCATT	TTTCTAAAGC	ACAGATATGA	CCTTTTTTGT
128151	TAAGAAAAAG	AAACTACTGT	TGCTCCCCAG	TGCTACACAC	ACACACACAC
128201	ACACATACAC	ATACACACCC	TTCAACAAGCC	TTATCTGCAC	CCCCGCCAC
128251	TCCCCACAAC	AAACTTCAGA	TGTCTTAGCT	TGGCATTCTT	CGGAATTAGG
128301	TCAACGTTTC	AGATTTTGCT	TCCATTTGTG	TATTTCTGAC	CCTTCATGAA
128351	CTCATTTTGG	CCTCTTAGAA	CTTCTTCCTC	TTCTCAAAGC	ATCTCTTGGG
128401	TTTTTTAACC	TCTTGTTCTT	TCGCCTATAA	AGAGAGTTTC	CAAGGCAAAC
128451	CTTGGTCTTC	TTTTAAAAATC	ACTCTGCGTA	AGATTTGAAA	TCACTAAATG
128501	AAGTTTTAAT	AAAGGATATA	TCTTCATTGC	AGGGCTTTTC	AAAATCTTTA
128551	TAGCCAAGTA	TTTTGGTCAT	TTCTAAGAAA	GGACACACTA	TTAAACTATT
128601	CCAGTTCGTG	TTGGGGAGGT	TTTTCTAGAT	CTCTTTATAT	TCAAATTCTA
128651	TTCACTACTT	ATCACCTATG	ACAAAATAGC	ACTTTCTCTA	AAGAAACATT
128701	CTCTGACCTC	CCTATCTAAA	GTGATCCGAA	TCTCTTCCAA	ACATTTATTT
128751	ACTTTATGTA	TCCTGTGAAT	CTTTGGAATC	TAAGCTTATT	AGAAAAATATA
128801	GAAAACCAAG	AAAATGAAAG	CAAAAATCAG	CTGTAGTCTC	TAAGGCAAAG
128851	AACATTTCCA	ATTAAGAAAT	TAAACTCCCT	TTGACTTTTA	AACCCCATCT
128901	TAGCAGTTTG	TTGCATTAC	TTCCAACCTG	TTTCTGTTCT	CATAAGGATA
128951	CTCTATCTTC	AGATAGATAG	ATATAGATAG	ATGTGTTGTT	TTAGCAAAAA
129001	TAGAAGTATG	TTTTACCTTG	TTGAGCCTTT	TTTTTTTTCA	TTTCATAAGA
129051	TAAATGTAC	AGCTTTCTAG	ATCAGAACAC	CTAAATCTAT	TTTCTTTTTA
129101	AGGATTTAAT	CTATAGGCAT	ATCAATTTTT	ATTTTTTATC	TCTTGTATAT
129151	TATTAGGTTG	TTAATTCATT	AAAGGTAAAG	TATGTATCTT	ATATAGGTTA
129201	GTATTATTCA	CAGTATTTAA	CTGTTTTTTT	TTTCCTCAGG	AGAGTCTTGC
129251	TCTGTCCCCC	AGGCTGGAGT	GCAATGGCCC	AATCTCGGCT	CACTGCAACC
129301	ACCCCTCCT	CTGTCCAATC	AACCCCTCCC	CCTGAGCCTC	CCAAGTAGCT
129351	GGGACTACAG	GCATATGCCA	CCATGCCTGG	AAATTTTTTG	TATTTTTTGT
129401	AGAGTTGGGG	TCTTACCATG	TTGCCCAGGC	TAGTCTTGAA	CTCCTGGGCT
129451	CAAGCAATCC	ACCTGCCTTG	GCCCTGCAAA	GTGGTGGGAT	TACAGGTGTG
129501	AGCCGCCGCA	CCTGGTCACA	ATATTTAACT	TTAAATAGGT	ATATAATACA
129551	TGTTATTTTT	CACTCACATC	CATGTGAAGA	GACCACCAAA	CAGGCTTTGT
129601	GTGAGCAACA	AGGCTATTTT	ACCTGGGTTT	CAGGTGGGCT	GAGTCCGAAA
129651	AGAGAAATCAG	CGAAGGGAGA	TAGGAGTGGG	GCCGTTTTAT	AAGATTTGGG
129701	TAGGTAAAGG	AAAAAGGGGG	GTTGTTCTCT	GGTGGGCAGG	GGTGAGGATC
129751	ACAAGGTGCT	CAGCGGGGGA	CGTTTTGAGC	CAGGATGAGC	CAGGAGAAGG
129801	AATTTACAAA	GGTAGTGTCA	TCAGTTAAGG	CAGGAACCGG	CCATTTTCAC
129851	TTCTTTTGTG	GTGGAATATC	ATCAGTTAAG	GCAGGAACCA	GCCATCTGGA
129901	TGTGTATGTG	CAGGTCACAG	GGGATATGAT	GGCTTAGCTT	GGGCTCAGAG
129951	GCCTGACAGT	TATTGAATGA	ATGGAGAAAC	AAATCACTTA	GACACCTTCT
130001	AGGAAAAAAT	GACCAACTAT	GCTACCTGCA	ATTACGTTTC	AAAATGTAGC
130051	TTATCTGAAG	AAAAGGAAGT	AACATTTAAT	TACAAGCATC	AATACAACCTC
130101	AAGCACAGAG	GAAGTGTGCT	AAACAATTTT	CTCCATACGT	ACAAAATTTTT
130151	ATTTACAGAA	AAGTATATGT	CTTAATGAGA	AAATGTGCTC	GAAAAACATTC

FIGURE 3PP

130201	TCATCATTTTC	TGAGTTTGGT	TTTCTAGTCTTA	ATGAATGTGT	CCCTTAACTA
130251	TTAATCTGCT	TTGTCATCTC	TCTAACTCCC	TACTATCTCA	TTGCCATTGC
130301	AAAGGCAAAG	GTCCACATCT	TTTATAGTTT	CATATTATCC	AAAAGTGTTA
130351	ACTTAGGATA	GATGTGTACA	TAGTTTTGTA	CTCATTGTAC	ATGCTTAGCT
130401	GCAATTTCTT	TGCCTTTGCA	CTTCTGAAAT	ACAACCATAT	TCACAACACA
130451	TCATTTGTTC	CCTTATAACA	TTTCACCTTT	TCCACTTTGT	TTATTCTCTA
130501	TATGCTCACT	GTTAGTTTAG	ATGCTGCCTT	AGGCTTTTAT	GATATATACT
130551	GTGACTGCAT	ACTGTAATTT	TTCTCTATAG	CATGTATCCC	ATTTATTTAA
130601	GTGTGTGTGT	GTGTGTGTAT	ACAGTCTATA	TAATAAATTT	ACATGCTTCC
130651	TTAAGTAGAC	TGTAGGCCCC	ACCAACATAG	AAACCATATG	TGCTTTGTTT
130701	TTCAATTGTAC	CCTCAATGCC	TAAGAAAGGT	GCTGGAACAT	GGTAGGCATT
130751	CAATAAATAA	TTGGTAAATA	AATAAATATA	CAATTCTGGT	AGTTGATTAA
130801	TTCAAATTA	TTTTAAATTT	TAGAACTGTA	AAAGTAAATTT	AAAAAATAAG
130851	ATAAAGACAA	TGTGATTATT	TTTTAATAAA	CCAACAGGTC	ATGGAGATTT
130901	TAAAAATTA	ATTCAGTCAT	ATGGCCTTGT	AAAGTAACTA	GAGAAAAATG
130951	TACACACTTA	AACCAGCTGC	TTGTGGCATT	CATCAGTTAA	TTCAATTTGTT
131001	TATAAAATCA	TTTTATTTTC	TAGGTGGCCC	AGAAACAGTA	GGTTGAGAAG
131051	CAGCAATGAA	TTAAATCAA	GAAGAAACAC	AGAAAAAGT	AAAAACACAT
131101	GTGCATACAC	ATATAAGCCT	AGAAGCTTGA	GTATACTAAG	CCTAATCTGA
131151	TTCTTAATGA	TAAACATGGT	CTGAATCATA	TGGAGTAACC	TAACCCCTTG
131201	GCTACTAAAT	TACCAATAAA	CATTGATAAT	GGTGATAAAG	CATCTAGCAC
131251	TCCTTTACTG	ATATTGAGTT	AATGAGTTAT	TTCTACTATA	TAATTACCAA
131301	GACATATGAT	ATAGCTATGG	TCCTTTATTT	AGTGTTGAGG	GGGTAAATAT
131351	GGCAGTTGTT	TTTAGATCTT	ACTTAAAAAG	CAAAAATGTT	TGAATTAATC
131401	TCCCTTTCAA	GGGCCACCTC	CTGGCACTTC	ATGGTTCCAT	GAATAGCTGA
131451	CATTGACTTG	CCATGTGTAA	AATTAAGCTT	TTCTTCCCAT	CACCTTTTCTT
131501	GAGGACTCAT	TTTGCTGTTC	ACTATTCATT	CACATTTACA	TATGCCCAT
131551	TTTACCTTTG	TGTCAATAAT	GATAAAAAATC	TCTCTCTTAT	ATTGTGTCTA
131601	ATACTATTAG	CCACTCACTC	TGTTGAGAAA	TTTACACATA	TTATCTCCTT
131651	TAATTTTTCC	AGCAATCTCA	TGAGGTAGCT	CATTTTACAG	ATGAAGTAAC
131701	AAGCTCAGAA	ATTGAGTGGA	GAAGTTTAGC	ACCAAATCCT	TTTAACCTCA
131751	AACACATGAT	TATTTTATAT	TACCTCTTAA	CACTGATTTA	CTACAGGGAA
131801	AAACTTAAAC	CCTTTCATTT	CCCCCAATTT	AGGTCATCCA	TCAACAGTCA
131851	TTTATTTAA	ATCTTAAAG	GGCCAGGCAT	GTGATCAATG	TGTATATCCA
131901	TATTAAGTGT	GCTGTGGCTA	GTAAATCGAA	TATGGAAATT	TTGTTTATTA
131951	AATAAACATG	TATTGTGCAC	CTACTGAATG	CTTGGTCTCA	TGAACAAGAA
132001	TGATATAATC	TCTGGCTGTG	AGTATCTTAC	AGTTCACATA	AGAGACATGA
132051	AATTTTCACTG	TTGGTGAGTC	CCCTACAAAA	TAATATAGAT	AAAGGCTGTC
132101	CTCTAGTGTA	AAGCTGTGAA	AACTACAGCT	AATCCACAGT	TTTCTTTTGT
132151	TTAATTTCTT	TTCTTTTTAA	ATTACTTTTC	TTCAAAATTA	AAACTGTAGA
132201	AGAACCTGGT	TCTTCCCCCA	AAATTTTTTT	TAAAAGCTTC	TGCCTCATCA
132251	CAAAATTCTC	CACCCTGCCA	TACTCTGTGG	AACCAGGGAC	TCATAGCATT
132301	TGTGGGACTG	GAGTTGATGT	TTTCTGAGCA	GTTTTCTGTC	CTGAGCTTCC
132351	TCATTATGTT	GCAAGTAAAG	GGATGGTATG	GTAAAAATCT	GGATTTACTT
132401	GCAATCAACC	CTTACATAAT	AATTTTTTAG	ACTTCCATTT	ATTGAGGACT
132451	TGTCCAGTAT	TTTCGTGTTAA	TACTTATATA	ATACCTTATA	AAACAATTTT
132501	AAATCAGCAT	CTCAGAGGCT	GATTCAGTCC	ACTTGAATGT	TTTGTTTGGC
132551	TCAGTGGAGT	GTTCAACTTT	AAAAATTTATG	GTATTTTAGA	AGCGACCATA
132601	AATTCCTAGT	GTCTCTTTAA	GAAAAAGTAG	GGGGTCTGGC	AACACAGGAC
132651	CACCTACACA	TATGGCAACG	CAAGAGTCAG	CTGGACAGGG	TTAGAAAATTG
132701	ATATAGATAT	TTTATCGGTT	GAAAGTTTAG	CTTGGAACA	TTTGGAATTT
132751	TTTTTTTTCT	TTTGTCTTAT	ACAAATGAAG	ACTTTTACTT	CTTTTCTCCC
132801	TTAAGAGACC	GTATCATATT	CGCTCCAGTA	CTTCCAGCAA	GGAAATTGTA
132851	CACACGTTTG	AGACGACTGT	TGTAACCTTAC	CCTTCTGCCT	GGTCACAGGA
132901	AATGGTGTCA	CTTCTTAAAA	AGGTAAGAAG	GAAGACTGCA	TGTCCAAACG
132951	AAGTAACAAA	AGGAAGCAGG	CTCTCTGGCT	TAAGTTTAGA	AGTTAGTATA
133001	CAATATTGGG	GACAGTCATG	ATAGTATACA	TTTGTAGAGT	GTATTTTCTA
133051	GCTGTTAGCT	TTCAAATACA	TGGCTTCATT	AACTCAACTC	AGATTCCCCT
133101	TGGATGTCCC	AAAGCCATCT	TAAACTCAAA	GGACTTCTTT	ATGCTTTGTC
133151	TTTCCTGAAT	ATCTTCTCAG	GAAATTAATC	TCAGTGACTG	GCTTCTCTAT
133201	CCAAATCCAC	TTACGCCAGC	CAGCAACCAG	GACTCATCTT	GTCATACTGC
133251	GTATTCATTT	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN

FIGURE 3QQ

133301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
133351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
133401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNCTAGC	CTTATAACGG	GTTTGTCCAC
133451	ATACACTTTT	ACCACTCCAT	TCTATTCCCC	ATGCAGCCCC	ACAGTGGTCT
133501	GTAAAGGAC	AGTCCAGGAT	ATTTTCCTTA	TTCTTAGAAT	AAAGATTAAA
133551	ATAATTTTGT	GGTACAAAAG	TTCAAAATAC	CTCTCAAGCC	TTGTTTTGGA
133601	CTTTTGGACT	TTTGTCCCCC	CTTTGACTAC	ACATAAACTG	CTTTGGCCTT
133651	TTTCTTCTTC	TTTTCTTTCT	TTTCTCCTTC	TTCACTTTTA	CATACCAGTC
133701	TTCTCTCAC	CACAGGACCT	TTGCACATGC	CAGTACCTAT	TCCTGGAACA
133751	GTGCCTCCAA	TCCTAGTTCC	TCCAGTTCCT	CCTTGAGAGC	AGTACTACTC
133801	AATGTGGTTC	ACTGGTTCTA	GTCCATGAAT	TTTTTCTGCA	GGTCTATTGT
133851	AAGTAAAGAA	CTTGAGAGAA	GCATTTAGAA	ACTTTTATAG	CAATTGGACA
133901	CTGCTGTAGC	ATCTAAACAC	ATGATCAATG	GACTTATCTT	ATTGAAGAGG
133951	GTCCAAGCTT	GTTTGACGGT	TGTTGAACTC	AAGTCACAAG	GTGTCTATGT
134001	GGGGTGCTGC	ATACTGGCAA	TGCATAATAA	GACCACATAC	TGATTTTCAGT
134051	GGATTGGAAG	TTGAAACAGT	ACAAAAACAA	ACAAAAATAA	CTGACCCTTC
134101	TACATAGTTT	GGGAAGCACA	ACTTTAGCTC	TTAGCTCAAA	TATCACCTTC
134151	TTGGTGTAAG	TTACATAAAC	ACTATCTTTC	CTTCATAGCA	TTTTTCAGTT
134201	TAAATTATA	CCCAGCATTT	GTGTGATCCT	TGGTTACGTA	CCATTTTCTT
134251	CTTAGCTTCA	TGAGGGTAGG	GACCATGTCT	GACATGTGTT	ACCATTGTAT
134301	TCTCAGCATC	TAACACAAAG	CCTGAGAAGT	GAAATTTGAC	AAGTATTCAA
134351	ATAAATGAGG	TCCACAGCTT	TCATCAGATT	TTCAAGGTAC	CCATCTTCAT
134401	CAACAGATG	AAGAACAGTT	ATAGCGGGAG	GTCAAAAGTG	TATATTGAGT
134451	GATGATACAA	AACAAGAATG	AGGGGCCCAA	GAGGAATGGG	CTTGGCCTTT
134501	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTGAG	GAGAAAATTG	CACCAGTTGT
134551	GGCTGGTAAT	GGAAAATAGC	TTTAGTGGCT	AAGGAGTCAT	CATTTGTGTC
134601	TCTTGTTTTT	GGAGTCAAGT	TCCTTATTTT	GGAATAGGGA	CATTGCATCA
134651	GTAATGTCAA	AGACATAGAA	TGGGGGATCA	TTTTTCATAA	GCAAATTCTG
134701	CTTAGTTCCA	AGACAGCCCT	GCTTCACTCC	ACAAATTACA	CCCTGAGGTT
134751	GCATGGTTGT	CATCTTCAGA	AGCATTCTCA	AGTGGGACTG	ACAATGCCTA
134801	TTTGAGCCAC	ACAATTGCTG	TGATGTTGGC	TCAGGAATGG	TTAAGGGGGC
134851	AAAAATCTTT	TATCTCAATT	AGTAAATCT	AGAACTATAA	CAGTTACTTT
134901	AGTTACACCT	TATCTATGCC	GCCCCCAATG	TATTTTAATT	AGTTGTAAAA
134951	ACAGCTACAA	TTCTTAGTAG	GAAATGAGTT	CTACTTGTGA	AATGTATCAA
135001	CATTTGTCAC	CATAGTTTTT	CTACTAGGTA	CTTTGTATAA	ATAGCCTCCC
135051	ACTAATCCTG	ATTACAATCG	TATGAAATAC	ATTATTACCA	CTTTTTTTAA
135101	ACACATGGGT	AAACTANNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	CATTCCAGGT	TTATTCCTAA
135601	TGTGAGTCAA	TCCTAACAAA	GCCAAATAAC	TCCCATTAG	TGCGCATTAC
135651	CCGGTGTGCC	AGATTCACAC	ATTGTCTCAT	TAGATAATCA	CACCAGTGTT
135701	GTTAAGAGAG	CCCCAATTCC	CATTTTACAG	TATGAGAGAA	TTGAGACATG
135751	CACAGGGTAA	GTTTGTCAAC	AAAGGTCACA	AAGCTAGCAA	GTAGTCAAGC
135801	TGGGATTCTA	ATCCAGGTGT	ATTTGCGACT	GAAGTTCTAG	CTTTTAACCA
135851	CTTTTATAGG	TCTGTTTTTA	TTGAAAGGAA	GTCTAGTTTC	CCCAAATAGT
135901	CATTCTCATG	AATCTGCTGG	GGTTTTTTTT	AAGTTTTCTT	TGATTCTAAA
135951	GATGCAGAAG	TTTGTGTCCC	TAGAGATCTG	AGTCAAAGAA	TTGAAAATTG
136001	TTGGAGTTGG	GGTGAGGAAT	TTATTTTAGC	ATTTGCCCTT	CATCCTTTGT
136051	TTGTTCTGTC	TCAGGGATTT	ATATTTGTAA	GGACTGATAA	CCAAAGACAT
136101	ATAATTCCCA	TTGGATGGAT	AGCCAAACCA	ATGGACTTCT	GTGGTCTACT
136151	GCATTATGCT	GGTAAGAGCC	AGAGTCCAGA	AGCTTAGGCC	AAAGGTCCCA
136201	AGTGAGGCCA	CTAGCTCCTT	CTCTCTGCCT	AGAACTGAAA	TTATATGTTC
136251	AGTTGTAGGT	ATATTGGGCA	GAATAAGAGG	CTTCTAAAGG	GGCCTGTAGA
136301	ACCAATTCAG	TTTTCTGTTT	TGGCTGTCAT	GGCAGCTCAG	GCCTGCAATC
136351	TCAGCACTTT	AGGAGGCCGA	GGCAGGAGGA	TCAGGGGTTT	AAGATCAGCC

FIGURE 3RR

136401	TTGGCAACAT	GGCAAGACCG	TGTCTCTACA	GAAAAAGAAA	AAAAAATTAG
136451	GCAGGCGTGG	TGGTACTTGG	GTGTAGTCTC	AGCTACCTAG	GAGGCTGAGG
136501	TAGAAAGATC	ACTTAAGCCC	AGGAGTTTGA	GGCTGCATGA	GCAGTGATTG
136551	TGCCACTGCA	CTCTAGCCTG	GGTAACAGAG	TGAGACCCTG	TCTCAAAAAA
136601	AAAAAAAAAAT	TACTCTTAAG	CCCATATGAG	GCATTTGCTG	TGGGAATGTG
136651	AGAGTGTGAT	CCTTCATGTA	CACACAGCAG	GAGGCATGCT	CCAATGAGAG
136701	GGTAAGGAGA	AAGTACAAAG	TGAGAGAAAG	GAGAAAGCAG	GGTGGTGGAA
136751	TTGTACCTTA	TGGAGCAACA	GGAGGGTAGG	TCTGAGTTCT	TACCTCTCCG
136801	CTTTGTGGGG	TCCATTAGGG	GCAACTTGTA	CCATAATTGA	CACATGACAC
136851	AATGAAGGTC	TAGGCACCCC	AACTCTTGCT	TCCCCCTCCT	TCTATGTGTT
136901	GCCTCCCTGC	AATTAGCCAT	CAATGCTGGC	TCAAAAGAAG	TTCTACGTTA
136951	TGCTTCTCTG	ACTTTAGTGT	GAATCGGAAT	CATCTGGGAA	GCTCATTTAA
137001	GTGCAAGTTC	TTGGACCTCA	CATTCTGAAA	TTCTGATTTG	GGAAGTCTGG
137051	TTGGAGAACT	GGGAAGCTGA	GCAAGCAACT	TAGGTGATTC	TGAGTTACAT
137101	GATTATTAGA	GCGCACTTTC	GGAAACATAA	CCCCAAATTT	ATTTTCCACT
137151	TTAGAAAAAT	AACTGTAAGT	CGGCTTTTGT	TTTTACTCAT	TGAGGCCATA
137201	TTGAGAGTTT	AGAAAAATAA	ACGAAGAATA	TGAAAAACGA	TGCTGGCAAT
137251	AAATAACGTA	AAACTTAGAG	TGGGAATCCC	AGTGTATTAT	TCATGGACTG
137301	CTCCGTAAAG	ACTAAGTATT	ATTTTCCGTA	TTAGGTCTGC	TGTGTTTTTC
137351	AGAATGATAC	AGTAATCTGA	GGATTGAGCC	AACTGTCTTC	CTTGCAGAAA
137401	GGCAGGCTGA	ATTGTGATCC	TACCTTTGAA	CTTGAGGAAA	TGATTTTGGA
137451	GTCCAAACCT	CTACATAAGA	AAAAAAAGCG	TCTGGCAAAG	AAGGAGAAGG
137501	ATATGAGGAA	ATGCGATTCT	TCTCAGGTAA	GCAGGTCCCC	ACCAAACCTCA
137551	GGGTCATGGG	TATCCCCATG	ATGGCTGCAA	TATCTTCGAG	AGCTTCTACT
137601	GGGAGGTCAT	TTCAGCTTCC	TGCTTTTGCT	GCTTAGTGAA	ATAGGAGAAG
137651	TAGATCAGCC	GGGTTTCTAA	AAGGGCAGAC	CAGAGCTCCT	CTGAGGATCC
137701	TAGCAGCAAC	ATTTTACTTG	TAGGCTTTCC	GTCTAGAGTT	CTGCCATTAA
137751	CTTGACTCAG	TTATTTCTCT	CTTCCAGTTC	TCAATTCAAA	ATTTACAAAT
137801	TTCCTGGGAG	AGGAACTGTC	ATTGGCCAAG	CTTAGGTCAG	GGGATGATTC
137851	ATAAAATTAT	GGTAAAGGGG	CAGGTTTCAA	AGTACACACA	TGGTTGTTTT
137901	GGACCTCACT	CCTGCTTTGA	GGAGTTTCTG	GGAGCAGCCA	ACCCTAGAGA
137951	TGATGTCTGT	TCTTTGCCAC	AAGCAGAATT	TTATGATATC	AAGCCTCACA
138001	GAAGAGTGTC	TGTTACACAG	AATGACGGAA	TTCTAACATG	GTGGAGCACT
138051	ATTGCTGGAT	TTCAGGCTGA	GTAAATTAA	CTTTGTAAC	AAGTATATTA
138101	TTCTCTGTCA	GAGTCAGAGC	TCAGATTTC	GTGAAGTAAC	TTGCAAACAC
138151	TCAGTAGGAT	TTTATACTCA	CATGTGGCTC	TATGAATTAT	AATGATGATG
138201	AAGTAATAAA	GTTACTTTGC	CTCTAAAGGT	CATCTATCTA	TCCACACGAC
138251	CATTTCCATT	CCTCCATCAA	TCCCTGCCTC	CCTCCATCCA	TTCATTTAGG
138301	CTACTTTTTT	TTAGTAGCTA	TGATCTGCCA	GGTCTGTGCT	TAAAGACTGG
138351	AGTGAGAAAT	GATTGAGATA	TAATTTCTAT	ACTCAGTGCT	GTCCCTTTTC
138401	TCAAAGATTG	TGTAGTCTTG	TGGTAAAGAT	GGCTCTGCAA	ACAAATAAGT
138451	ATCCTCCATC	TCCTTAATTT	CTCTAGTAGT	CAGGGGCCAC	TATATATTTT
138501	AATGGACAAT	TAACCAACGT	TCACATCTCT	GTCCTGTTTG	ATCACAGAAC
138551	TGGCTTCTCG	TCAGATTCCC	TTCAGGAAAT	ATTTTCTAGG	ACCCTCCAAG
138601	GAATGCTTAG	CTGTGCTGCT	AACCCGTCTT	GCATATTGCT	TGTCTCTGAA
138651	CTGTCTTCTT	CCCAATGGTC	TGTTCTCAT	GATCATGTCA	TAACCAACCC
138701	GCTTCTCCAG	ACTTGCTCCT	TCCCCTGACC	TAGCAGAACT	TGGCTCAAGG
138751	TGGATACAGG	CCTCTCTGAT	AACAGGACCT	AACATGTGAT	AAAAACCAAG
138801	AGATCCTTTT	TATTACAAGT	TTTTAAAGTT	TTAGAAATAA	CTGAGCAATT
138851	TAGGAATAAC	TTTTGACCAT	ACGTACCATG	CTCAACATGA	TCTGCCCATC
138901	TTTCTTGCCA	CATCCTTGTA	CTATCCCCT	CTGACCCTCA	CTTAAAACCC
138951	TCCAACCTCA	CAGGCCCTGC	AAGTGTCTCA	CTCTCAAGCA	CTGAACCTTT
139001	TGTTCTTCTT	CAAGGCCTTT	GCCCTTGCTC	TTCCCTGTTC	CTAGAATGGT
139051	CTTCCCTTTC	ATCTTCACAT	AGGGGGCTTC	CTCTCATTCT	TTATACCTTA
139101	AATATCACCT	TGTCATTTCT	GTTGTTGAAT	TATAGGATGT	TTTTTACATA
139151	TTCTGGATAT	TGGACCCTTA	TCAAATATGT	GAAGTGCAAA	TAGTTTCTCC
139201	CTTAGTCATT	CTACGAAGCC	AGCATTACCC	TGATACCAAA	CTGGACAAAG
139251	ACATCACAAA	AAATGATAAT	TACAACTGA	CATCTGTTAT	GAATATAGAT
139301	GCAAAAAATCC	TTAACATATT	AGCAAGGTGT	TCAGTTAGGC	TTTTGACTTA
139351	AGATGTTTCT	TCTTTTTTAA	TATTGGTGTT	TATAGCTATA	AAGTTCCTTC
139401	TGAGCACTGC	CTTCACCTAT	CCCATAAGTT	TTGGGATGCT	GTGGTTTGTT
139451	TTTAATTTCAT	CTCTAAGTAT	ATTCTGATAT	CTCATGTGAT	TTCTCTTTTT

FIGURE 3SS

139501	GACTCTTTTT	TTAAGAGTTT	GTTGTTTAA	TTCCACATTT	TTGTGAATTT
139551	TCCAGTTTTT	CTTCTGTTAT	TGATTCCCTAC	CTTCATTCCA	ATTATTTTCAG
139601	TCTTTTTTAA	TTTTTTTGATA	CCTGTTTTGT	GGTTTCCTTC	CATGGTTTTCC
139651	TTTAACTCTG	AGCATATTCA	AGACGGTTGT	TTTAAAATCT	CACTCTAGAA
139701	AGCTCAATGT	TTGAGCTTCC	TCAGGACAAT	TTCTATCCGT	TGATTTTAAG
139751	TCTTTGAATG	GCAATATTTT	CCTGTTTCTT	TGTGTGCCTT	GTGATTTTTT
139801	TTCTGTTGCT	ATTGAAAAC	CGACATTTAA	ATATGATAAT	GTGGTAACTC
139851	TGGAAATCAG	GTTCTCCTT	TCTTCATGGT	TTGCTATTTT	TTGATTGTTG
139901	AAGGCTGTAG	TTATCCATTG	TTTAGCGACT	TCTCCAAACA	ATGTTTGCAG
139951	AGATTGTCTG	CTTTGTTGTG	TCATCACTGA	AGTTTCTGTT	ACTTTAGCCT
140001	GTGCTCAGCT	AATGTTTTGA	CTGAGATTTA	ACACCAAGAG	CATTTTTAAG
140051	TTGTTTTTCT	TTTCTTAAAT	TAGTGTTTAC	TTGGTTCCAG	TAAACCTTTG
140101	AGTGCTTTCC	GGAGTTTTGA	CAAAGTTGGT	TTTGACAGTA	TCTGCTTGT
140151	TTTTTGATGT	TTCTGTTTCA	AGATGGGGCT	TGGAACTGCT	TACATCAGCA
140201	TTTTTCTCTA	GATTCTTCTA	ATCTTGTAAC	CCAGGTTCAA	AAATAAAAGG
140251	TACTTTGCTT	CAAAACAAAG	AATAGTCTTT	CTTCCAAGAA	GAATCAGAAA
140301	GATTATGAAC	TATTTTTCTG	ATTCTTCACT	CTATTTTCTC	TCTTTTACAT
140351	TAAGGCTTTT	AAAACATGAG	TCAATCTTAC	CTTATTATAT	TATTAACATG
140401	CTCGTTCATT	CATTCATTCA	TTTATTCAGA	TGACTGTAAA	ATTCTTGCTT
140451	TGTTAGGAAA	TATTTCTGAC	TAGGTGGTTA	ATGCTATGGT	TAGATACACA
140501	AAGTGCTGTG	GGAATTGCTC	ACTGGACCTG	AGTGAAGGGT	TAGGATAGGC
140551	TTTCCAGAGG	AGGCAACATT	TGATCTGGTT	CCTCCAGATT	GAGCAGAGGT
140601	AGGTGAGCAT	ACAGGAAAGG	ACAAGAGCAT	TTCAAGGCTG	GCACATCTCA
140651	GGGCACAGGC	AGATCTTAAT	GTTACAGAGG	AAATAAAATG	ACAGGTGGTT
140701	TCTGATCATA	GGAATTACCC	ATGCTGTGTT	CAAAAGGCTT	GTGACATTAC
140751	TCATCCTCCC	TGCCTTTAGT	CTTATCTAGA	GCCATTCACT	GAAGGCATTC
140801	CTTCAACAAA	ATCTAACAA	AACATACACC	ATATCAGTAT	CATATTAGCT
140851	ATAGCTTAGC	CCCATTCTG	CCCCACTGTG	TGTAGCTCAG	AGTCACCTTG
140901	TTACTCTAGA	GCCAAATTCA	TCAGTGTGTT	GGTACCCACA	TTAGAAAAGA
140951	GTCAAGTGTT	GGCAAGGGAA	TTCCAATCAA	GCCACAAGCC	TGGAAAAGGA
141001	GCTCTCTATT	CTGAGCTCTC	TGAGTTCTCT	ATTCTGTTTA	ATTGGTCTAT
141051	GCGTCTGTCG	TTGTACCAT	ACCATGCTGT	TTTGTTTACT	GTAGCTTTGT
141101	AGTATAGTTT	GAAGTCAGGT	AGTGTAGTAG	TGTAATAATG	CCTCCAGTCT
141151	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	GCTTAGGATT
141201	GTCTTGACTA	TTCAAGCCCT	TATTTGGTTC	CATATACATT	TGAAAATAGT
141251	TTTTTTTTTCT	AATTCTGTGA	AGAATGCCAA	CAGTCATTTA	ATGGGAATAG
141301	CATTGAATCT	ATAAATTACT	TTAGGCAGTA	TGGCCATTTT	TATGATATTG
141351	ATTCTATCTG	GGAACCTGGA	ATGTTTTTCC	ATTTGTTTGT	GTCTCTCTG
141401	ATTTCTTGA	GCAGTGGTTT	GTATTTCTCC	TTGAAGAGGT	CCTTCATTTT
141451	CCTTGTTAGC	TATATTCCTA	GGTGTTTTAT	TGTTTTGTAG	CAGTTGTGAA
141501	TGGGAGTTCA	TTTCATGATT	GTCTCTCTGC	TTGCCTGTTG	TTGGTGTATA
141551	GGAATGCTAG	CAATCTTTC	ACATTCATTT	TATATCCTGG	GTTTCAGTAT
141601	TTTAAAAACT	TACTTCAGGT	GATTCTATGT	GTGCAACCAT	GATTGAGATA
141651	CACTGTTATA	GAATCTAGGA	TGTGATAAAC	TAGAAGAACA	TAACTAAAGT
141701	TTTGCATTTT	TCGGGTGTCT	CAGTTTCCTC	ATTTATAGAT	GGAGTTGGTA
141751	TGTGTACCAA	GTTTCATAGG	TTGTTCTGAG	TAAATAGTGT	CATGTAAAGT
141801	GCTCCACAGA	ATGTTAGCTG	TTGTGATGCT	TTACTTTCCA	TTGCACTTCC
141851	TGACTCCTAG	CCTTTCTTTT	CCTTGGCTCT	TTTTATGCTC	ATGTCAGATG
141901	CCTCTATTGT	TTCTTTCCCC	CCAGAATATC	CTCCACTTTA	TCTTGCTCTG
141951	CTCAACATCT	TTAAAGTATA	GAATCAACAG	ACTGCCATGC	CACCCAGTCT
142001	GTCTGACAAT	TGAGGCAAAT	TCCCTAAGTC	CTCTTGTTCT	CCTTCTGAGA
142051	TTTCCACCTG	CTCTAACCCC	TTCCAATATT	TCAGATGCCG	TCTCCAGCTA
142101	TGATAATTTA	ATCAGTGTTT	GCTCTGCTCA	TCCTTGATAT	GTGAGTCCTA
142151	AGATTTTAA	CGATCATTTT	CCTTCTAAGT	CATGTATGAC	CCATTAGTCC
142201	CTCCATTCTT	TTTTCTTACC	CCTCATTTCA	TATTCTCTTT	ATGGCTACTC
142251	CTGTTGATGT	ATCCATTG	CCACACTTCT	TAAACTTCTC	CACCTAAAGC
142301	AGAGGAAAAA	GAACAAGTTG	AACATGAACC	CTTTAAGGGT	AATGGGGTCT
142351	GAAGTGTCAC	ACTAAAAGGT	CATCTGCAAG	TATGTATTTT	ATATCTTTGT
142401	TTAAATAAAA	TAGTTACATA	GTAGAGGGAA	AAAAAATCCA	TGTGGATTTT
142451	GCATTTCACT	CAATTATAAC	CTTGATTTT	AATGCTAAAA	ATTATTTTTT
142501	CTAAAATCTT	GGGGTAAAAG	TGTTGCTCCA	AAGAGCTTTT	ATCAGATTAT
142551	GTTTATCCTG	TAGCTGCCTG	TCCCTGTGTA	CCGATACTGG	AAACCCTCAG

FIGURE 3TT

142601 GATTACAAAT GCCTCCGTTT GCAAGTAAGA GTGAAATACA GCAGAACTGT
142651 GTCTTCTCCT TTGTCTTGTT CCCCATCTCT CTTCTGTGCT TTGTATTGTT
142701 TCCTCTCCTG TCACCTAAAC AGGCACTCTG AAAGAAAACCT CTCCAGTACT
142751 GGAGAACTTA GCATATTCTA ATTCTAGGT TAAAAAATAA TAATAAATGA
142801 CTGAATGATT TTTTTTAAAG AATATTTTCC ATCAGAAGAA ATTTGGAAGT
142851 ATTTTGTGTC AGAATTTTAA AACATTTGAT CTGGGTCTAA TTCTGTCCTG
142901 GGACTGGTAA TCATCTTTTT TTGAGGCTAA ATTTTCTCAT TTTGATGAAA
142951 AAGTCATCAA TAGATGTTGA AAGCTGGACA GTGCAGTGTC AAAGCAAATG
143001 CTTTGCATGT CTGCAAGAAA GTCACAAATA AAGAAGGCTC TGCTGACTAA
143051 AAGAGAAAGA TACTTAATCA ACTCCAGTAC CATTGTTGAG GGGAAACATTC
143101 TATCAGGATT CAGTATAGAG AGATATTTTT AGGCTATTCA CAAAATCCAG
143151 GTAGAACCTC CAAGCTACAT TTACAATAAT ACTAGCTTTT AGATTAATTG
143201 TTGTTTTTTA AATATGTATT AGCCTCTTAT ACAAATATAA GGAGTTACAA
143251 ATTATTATTA CAATAATCTT GGCTTTCGTG ATTGTCCAAT GTATTTACAC
143301 GTACCGAGAG CTTTATTTCT CCGTATAGTT TCAAGTTACT GTCTCGTGTC
143351 CTTTCATTTT ACCTTGCAAG ACTCCTTTGA GCATTTCTTA CAGGGAAGTT
143401 CTAGTGGTAA TAAACTCCCT CCACCTTTAT CTGGAAACAT CTTAGTTTCT
143451 CTCTCACTTT TCAAGAACAG TTCTGCCAGA TAGAGGACCC TTGGTTGATA
143501 GGTTTTTTTC TTTTAGCACT TTGAATATAT CAGCCCACTG CCTTCTGGCC
143551 TCCAAAGTTT CTGATAAGAA ATCTGCCCGT CATCTTATGA TGACTTGAC
143601 AAATTTTTTC TCTCTTGCTG CTTTCAAGAT TCTCTCCTTG TCTTTGGCTT
143651 TAGAAAGTTT GCTTATATTG GCTGGACATG GTGGCTCACA CCTGTAATCC
143701 CAGCACTTTG GGAGGCTGAG GCAGGCGGAT CACTTGAGGC CAGGAGTTTG
143751 AGATCAGCCT GGCCAACATG ATGAAACCCC TGCCTCTACT TAAAATTCAA
143801 AAATTAGCTA AGTGTAGTGG TGCACACCTG TAATCCCAGC TACTTGGGTG
143851 GCTAAGGCAA GAGAATCTCT TGAACCCAAG AGGAGGAGGT TGCAGTGAGC
143901 TGAGAGCATG CCACTTCACT CCAGTCTGGG CAACAGAGCA AAAGTCTGTC
143951 AGAAAAAATA AAAAAAGGAAA GTTTGATTAT ATTATGTGTC AATGTGGGTC
144001 TTTTTGAATT CATCTTACTT GGGATACACT GTGCCTTTTT GGATTTGGGG
144051 GCTCATGCCT TTCAGCTATG ATTTCTTTAA GTATTCTGTT TTCCTTTTTC
144101 TCTCTCTTCT CCTCCTGGGA CTTCCACAGT ACGTACACTG GTTTGCTTGA
144151 TGGTGTTCCA TACATTCCCTG TAGGCCAGGG ATGTCCAATC TTTTGGCTTC
144201 CCTGGGCCAC GTTGGAAGAA GAGGAATTGT CTTAGGCCAC ACATAAATA
144251 CACTAACACT AACGATAGCT GATGAGCTAA AGAAAAATCA CCCTCAAAAA
144301 AATCTCCTAA TGTTTTAAGA AAGTTTACAA ATTTGTGTTG GGCCACATTC
144351 AAAGCCATCC TGAGGCACAT GTGGCCCATG GGCTGTGGGT TGGACAAGCT
144401 TGCTATAGGC TCTGTTCAAT ATTCTTCAAT CTTTTTTCTT TCTGTTCTC
144451 AGACTCAGTA ATTTCCACTG TCCTGTCATC AAGTTTGATA CTGATTCCTT
144501 CCTTGCCTGC TCAATTTTGC CGTTGAAACC CTGTAGCAA TTTTTAAATT
144551 TTAGTTATTG CACTTTTCAG CTCAAGAATT CTTTTTTAGT TTCTTTTTAG
144601 GTTTTCTATA TTTTTATTAA TACTTTAGTT TTGTTTGCAC ATCATTTTCT
144651 TGATTTTCTC TATATCTTCC TTTAGCTCTT TGAGCATCTT TAAGATAGTT
144701 GTTTTGATGT CTTTATCTAG TAGATCTACT GTTAGGTCTT TTTAAGGGAT
144751 AGGTTTTTTG GTTTATGTTT TTTACTGTGA ATGAGCCATA CTTCTCTATT
144801 TCCTGGCATG CTTGTGTTAT TTTTGATTG GACACTTGAA TCTAATAATG
144851 TGATAAATCT AGGAAAATCA GATTTCTCCC ATCCCCAGGG TTTGCTGTTT
144901 TTTGTTATTG TTTTTATTTT TATTTTTTAT TATTGTTGTA AGCTGTCTCC
144951 ATGCCAAGGA TCAGCTGAGG TGTAACATA AGATCTTCTT AGGTCTTTTT
145001 TGAGCCTGCA CCCTTCCCTG GTCATGTGCA GTCACCTTCT AATTTTCCCT
145051 ACACATGCAG TTGTTTTTGA ATGTCCCAGC CTTTACGTG TGGCTCCCAA
145101 AAGGAGGAAA GGAGAAAAAT GAAGAGGGTG AAAAGGTGCT GGCCCTTTAA
145151 TTCTCCCAGA AGTCACTTCA GCCTGAGGGA GAGTGGCTGG CAACATTGTG
145201 GGGGAGGTGC AACACAATG GCCATCAAGC ATTTTGTGTT CACCTCTGTG
145251 ATCAGAAGCA GCAGTGTGCG AAGCACAGAT CCTCAGAATT TGGAGAACAC
145301 AGTTCTTGCT TTCCACCCTG ACTCTCACAG GCTGTGTGCA AACTGCTCCG
145351 GAACATGTGT GTGCTCAGCT CCCTCCCATG GGGCTGGAGG ATGAGGGATG
145401 GGTAAGCTGCT GCTGTGCTAA GAGCTTAAGT TGGTCATAAT TAACTGCGCT
145451 TTGCCACCCA AGCCTTCCCT GAAAGTTGCA AGCTTTCAAT AGACTCCAGA
145501 GTTCTAAAAT AGTGACATTA GACAGATTCT GCCAGTGCAA TCGCTGTCTA
145551 GGAGGGGAGA CAGATTCTCG GTGCTTCTCG TTTTGCCAGC TTCCCGGAAT
145601 CTTCTTCACA TAGCATCCAT TTTGAAGATA CTACTTACTT CTAATTTGAG
145651 GGCTATTCAT TGAATAGACT GTCACCAGGT TATTGGCTGT TTGAAGATTG

FIGURE 3UU

145701 TCATTTGTCT GCTAACTATA CCTCTATTTT TTTTCTACGT TCACCTGGAA
145751 GACATGTCTT CTTCAGAGC ACCTTGACTC TGTCCAGAAG GAGTTCATAA
145801 TTTTCAACAG AGAAAAGTAA GTAATTCCTG GGAGAACAAC AGCCCCAGAA
145851 ATGGTGGCAT GTTTCAGCCA GACTTTACTT GCAGAGAAAA TATATTTTAA
145901 ACATTTTAAA AATTATTTTC TAATTGGGAA AATGATGCAA TCTATTATAG
145951 AAAATGTAGA AACCTTTTTT GTAAGGTATT TAACATTTTT TAATTGATAA
146001 ATTAGCCTAG CATCAAGTTT TGTTTGTGA GAAGGGAAGA GGAATTAGGA
146051 TTTAAACACT TAAAAATCAA AGCCTTTTAA AAGATTTCTT TGGCTCATGC
146101 TTATTTATAA ATTATTGGGC TTAATATTAT TTCAAAAGCT TAAACCTTTC
146151 ATTTTATTTT TCAAAGAATA AAACATCTTT TTTTTCTTT TCTTTTAAAG
146201 AGTAAACAGG GACTTTAACA AAAGACAACC AAATCTAGCC TTGGAACAAA
146251 CCAAAGACCC ACAAGGTGAG GATGGTCAGA ATAACAACCT GTAAAGGCCT
146301 CATGTCTTCT TCTTGGGACA ATCTCATGCC AGAAACTTCT AATTACATAT
146351 GTCAGAAAAA GCTGACAGTA GTTCTTGCCA CTCCACACAC CATGACTTAG
146401 AAAATGTGAA TGAATATATT TCAAAAAAGG CAGCACAAAC CAGTGAAGGG
146451 TCCTGGGCCCT GAGCTCCTGG GATGTCATTT CACATCAATC AACTGTGTGA
146501 TCTAGAGCAA GTCACCTAGC CACTTTCTGT GCTTTACTTT ATTTATCTAA
146551 AATGAGAGGG TTATACTAGA CGAGCCATAC CCTGCCTTTT TAGTGCTATA
146601 GTTGTTATTC TAAACCGCCT TTATTTTTAT TTTAAATTA ATATATGAAT
146651 ATAGATTTAT TTTTCCACTC CTTCTAATTA TGCAGTGACA AATGGACAAA
146701 TGGACACAGG ACTCAGTGAG ACTTTTCAGA CCTCGAAAGT TTCATAAAGT
146751 GGTGAGAAATG CCCCAGGCTA CTTGGATAAA GATAAGGAAT TCTATCAGGG
146801 AGGCATGAAT GGAATCAGAT TAAAAGTAAC AGAGATGGAT GAGGGCCTTC
146851 CAGTGATATG CGTGAATCAG CATTAGATCC GCTTATCTCA GCTGGCAGGA
146901 GCCTGCTGTG CACACCACTT CCCAGCTCCC TCTTCAACAA TGTGAAAGTG
146951 GTAACCTGAA ATTGGTAATA ATGGGAGCAT TTACACCACG GAAACTGGTA
147001 AATGCTCGTT TTTTCCCTCC TAACAAGTGA ATTGCTAAAT ATTAGCCAC
147051 CACTCCTTCC AAGAAGCATG TTCCTTGAGG GCTAATTGTC CTCTGAAGAT
147101 TAGCAGAGAG CTGTATCTGG AGAGGATCAG AAAAGAATGT CATCACTG
147151 AAAGTATGTC CACCTTGCAG TTCAGAAAAG TTGCATCTTA TATGGGGTTT
147201 ATTGTCTAAG TTAGAAATGA ATTTAGAAGA TAGTAAATTT TACCGTTGAA
147251 AAACCCCTTA AATTACCCAT AAAGTATATG GGAAGTATCT TTTCTCAGTA
147301 AAGCCCAATA CAGTGTCAAC TTTCACTAAT GAAACAAGCC ATTGCTTTTG
147351 TTTTGTTTTG ACTTAGTTAT TTTTATTTTT GGTCTCATTT TGGCTAATAC
147401 CAGATGAGCT AAAATGTTGA ACAAATTATA CTGTGTTTTA TAGACTAGAA
147451 TTAATCTTTT TTTTCTTTTC AGGCAGAGTC TCACTCTGTC ACCCAGGCTG
147501 GAGTGCAGTG GCATGATCTC TGCTCACTAC ATCTGCCTCC CGGGTTCAAG
147551 TGATTCTTGT GTCTCAGCCT CCTAAGTAGC TGGGATCGCA TGTGTGTGCC
147601 ACCATGTGTA GCTAATTTTT TGTATTTTTA GTAGAGATAG GATTTTGCTA
147651 AGCTGGCCAG GTTGGTTTCA AACTCCTGGT CTCAAGTGAT CCGCCACCT
147701 TGGCCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCCACCA AACCTGGCCT
147751 TAGAATTACT CTTAGAACAG TGGAATGCCC ACACATCCAA GACAGGCAAG
147801 TTCATGGAGA CTAAGGGAAC AGTGGTATCA TGTCTCCCTT CTCCCTTGTTG
147851 CTTACTACAA GAATGGCAGG CAGAATTCCC TACTTATTTA AAATATCACT
147901 GATGTCTCAC TCTTTTCTT TATATTTTAT TTATTGATTT GCCACAAAGT
147951 TTAATTCACC TAAGTGAGAC GTGCATATGA TGTAACCTCCA CTGTACAGAT
148001 ACACAGATCT TTACAGAAGA ACTATTTTTG GCAACCCCTA TGCCCTGGG
148051 TAGGGTCCAG AAGTGAACAG GCTTGGTGGG GGATTGTTTT CACCTCTTGG
148101 CTAAGTGGAG TACCTAAACC TGTCCTTACT TATGGAGAGC ATGTGTCACA
148151 CCAAGATGGC AGTAAGCTGG CAACTGCGAA GACCTGACTG ATGCCCATTT
148201 GGAAGCCAG GCAAGTGAAA ATGGACCGAA GAAACAGAGA TGGCTGTCTT
148251 TTATGCAGGG CTTTTCCATA AAGAGGTTAC ACTGGGGCAA CCAAGTATGT
148301 GTAGAAAGCC AGAGCTAAAC TTCAGCTTGG CATTACAGT TTTCTCTTCA
148351 CTGAGCTAAT AGGCCAGAG TTTCGGGCAG AGCTGTGAAA TAGTGCTTCT
148401 CTAATAGCAA CCATATTATT GTTACATAAT TAAAAGCCAG CTCTTTTGT
148451 GTTTGTTTGA TTCCTTTTCC CTACAGTTCC CACATCATTT GTCTGTGCTA
148501 TTCTGTTTTT CTCAAACAC TATAAACTTG AAGCAATTGC CCTGACTCGA
148551 TTTGAGAGAA GGGGATG
(SEQ ID NO: 3)
FEATURES:
Start: 2003
Exon: 2003-2054

FIGURE 3VV

Intron: 2055-22564
Exon: 22565-22567
Intron: 22568-39943
Exon: 39944-39999
Intron: 40000-41067
Exon: 41068-41219
Intron: 41220-79497
Exon: 79498-79500
Intron: 79501-86044
Exon: 86045-86218
Intron: 86219-105152
Exon: 105153-105190
Intron: 105191-113211
Exon: 113212-113301
Intron: 113302-123667
Exon: 123668-123765
Intron: 123766-132805
Exon: 132806-132922
Intron: 132923-133775
Exon: 133776-133848
Intron: 133849-134127
Exon: 134128-134155
Intron: 134156-134530
Exon: 134531-134545
Intron: 134546-135588
Exon: 135589-135601
Intron: 135602-137397
Exon: 137398-137526
Intron: 137527-145751
Exon: 145752-145816
Intron: 145817-146200
Exon: 146201-146291
Stop: 146292

SNPS:

DNA Position Minor	Major	Minor	Domain	Protein Position	Major	
210	G	A	Beyond ORF(5')			
332	T	A	Beyond ORF(5')			
1131	T	A	Beyond ORF(5')			
1221	C	T	Beyond ORF(5')			
2011	G	C	Exon	3	A	A
4309	A	C	Intron			
4345	C	T	Intron			
4651	T	C	Intron			
5037	A	G	Intron			
5126	C	T	Intron			
6048	G	T	Intron			
6229	-	T	Intron			
6328	G	A	Intron			
6350	C	T	Intron			
6382	G	T	Intron			
6434	A	-	Intron			
6722	A	G	Intron			
6751	C	T	Intron			
6752	A	T	Intron			
7070	T	C	Intron			
7306	T	C	Intron			

FIGURE 3WW

7339	A	G	Intron
7531	G	A	Intron
8902	A	G	Intron
9471	G	A	Intron
10023	C	T	Intron
10594	C	G	Intron
11233	C	T	Intron
11295	-	A T	Intron
11534	-	T	Intron
11757	T	C	Intron
11951	G	A	Intron
12901	C	A	Intron
13040	C	T	Intron
13081	A	G	Intron
13173	G	T	Intron
13272	C	T	Intron
13333	A	- G	Intron
13485	C	A	Intron
13933	A	T	Intron
14086	G	A	Intron
14094	C	T	Intron
14141	G	-	Intron
14831	T	C	Intron
15319	T	C	Intron
15321	T	C	Intron
15335	A	G	Intron
15477	G	A	Intron
15650	T	C	Intron
15880	C	T	Intron
16944	G	A	Intron
17061	C	T	Intron
17494	G	C	Intron
17642	T	A	Intron
17737	A	C	Intron
18068	A	G	Intron
18339	C	T	Intron
18361	C	T	Intron
19218	A	G T	Intron
19298	C	A	Intron
19629	C	T	Intron
19679	G	A	Intron
19981	A	G	Intron
20014	C	T	Intron
20280	C	T	Intron
20612	A	C	Intron
21966	C	T	Intron
22017	T	C	Intron
28009	G	A	Intron
28059	T	A	Intron
28580	T	C	Intron
28595	A	C	Intron
28823	-	A C	Intron
28827	C	G	Intron
28842	G	T	Intron
30128	T	A	Intron
30150	T	G	Intron
30188	C	T	Intron
30453	T	C	Intron
34990	A	G	Intron
35203	G	A	Intron
36206	G	A	Intron
39692	C	T	Intron

FIGURE 3XX

40095	A	G	Intron
40191	T	C	Intron
40287	G	A	Intron
40384	T	C	Intron
40510	G	A	Intron
41664	C	T	Intron
48324	T	G	Intron
48423	C	T	Intron
50015	A	C	Intron
50095	T	G	Intron
52300	A	G	Intron
52623	C	G	Intron
52773	G	A	Intron
53140	G	A	Intron
53848	A	T	Intron
57636	-	A	Intron
57693	A	T	Intron
58585	T	C	Intron
58649	T	C	Intron
62188	A	T	Intron
63478	G	A	Intron
65457	C	A	Intron
69947	A	G	Intron
69981	C	T	Intron
71165	G	A	Intron
71347	A	G	Intron
71903	A	G	Intron
71908	C	T	Intron
71994	G	A	Intron
72010	T	C	Intron
72612	G	A	Intron
73294	A	G	Intron
73385	C	G	Intron
74121	G	A	Intron
75646	A	G	Intron
75698	C	T	Intron
79007	-	A	Intron
80043	A	G	Intron
80499	G	C	Intron
80940	A	- T	Intron
81615	G	T	Intron
82599	C	-	Intron
82952	-	G	Intron
85020	A	T	Intron
88843	C	T	Intron
89700	G	A	Intron
90002	G	A	Intron
90615	A	G	Intron
92506	A	G	Intron
92558	T	C	Intron
92667	G	A	Intron
92803	A	T	Intron
95079	T	A	Intron
95089	G	A	Intron
96495	G	A	Intron
97070	T	A	Intron
99913	A	C	Intron
102375	C	T	Intron
102686	-	A	Intron
102687	A	C	Intron
102939	C	T	Intron
106162	G	T	Intron

FIGURE 3YY

106378	T	G	Intron
107310	C	T	Intron
108663	C	A	Intron
108876	A	T	Intron
110733	C	G	Intron
111546	A	G	Intron
116728	T	C	Intron
118403	G	T	Intron
118491	C	G	Intron
118888	A	G	Intron
125444	-	A T	Intron
125810	T	C	Intron
126092	T	C	Intron
127506	G	A	Intron
127878	G	T	Intron
139738	T	C	Intron
140261	C	T	Intron
141590	T	G	Intron
142613	C	T	Intron
142774	C	A	Intron
143288	G	A	Intron
145610	A	C	Intron
148360	T	C	Beyond ORF(3')

Context:

DNA
Position

210 TCCCTCTCTCATACCATTTAATTGGTTGCTTCCTAATTAATGACTCTCTTTGCTCTCTAT
TTAATGATTCTTGCTAAAGTCCATAAGGCACCTTGCCAGCAGTTGGTTTTAGTATGAAA
AGTAGCATTTCTTAATGAGTCTGAGTCTGCCTTCCAAATGAAGGGTTTACTTACATTTT
CCTAATGGGAAAACGAGCTTTTCTTCTAC
[G,A]
CTTCCTTAGGGGTTTCATAAGTTCTTTTTCAATAACTCATCCTTAACACTTTCTCCAATT
CTGCCTGTAATCAATATTTCCCTTCACATGTAAAGAGCTCAGGAGGAAATCAACTATTTTT
TTAAAAATACGCAATAAGGAAATTCTGCTACTCTTAGAAATAGCAGGAGCTAACATTCAT
TCTTTGCATATCATGTGCTAGGCATTGTGCCAATTACCTTATATACATTGTCTCATTATA
TGTATCCATGACCATATATGTGCTAAGCATGAAATTTTCTTAAGCCAGATAGCTGAGTAG

332 CCTAATTAATGACTCTCTTTGCTCTCTATTTAATGATTCTTGCTAAAGTCCATAAGGCAC
TTTGCCAGCAGTTGGTTTTAGTATGAAAAGTAGCATTTCTTAATGAGTCTGAGTCTGC
CTTCCAAATGAAGGGTTTACTTACATTTTCTAATGGGAAAACGAGCTTTTCTTCTACGC
TTCTTAGGGGTTTCATAAGTTCTTTTTCAATAACTCATCCTTAACACTTTCTCCAATTC
TGCCTGTAATCAATATTTCCCTTCACATGTAAAGAGCTCAGGAGGAAATCAACTATTTTTT
[T,A]
AAAAATACGCAATAAGGAAATTCTGCTACTCTTAGAAATAGCAGGAGCTAACATTCATTC
TTTGCATATCATGTGCTAGGCATTGTGCCAATTACCTTATATACATTGTCTCATTATATG
TATCCATGACCATATATGTGCTAAGCATGAAATTTTCTTAAGCCAGATAGCTGAGTAGAA
TTTTAAAATATTATTTTGTACAAAATCTAGACCTTTACCCCATTTGGGGGATAGATCTGA
AGATCTGGGCTCATGTTCCATGTGGTGACAATCTGTTTGATCTGAGCACAATTACTTTA

1131 AGGACTGGAACACAGGATGCTGCCTCTCTTTACCATTATGTTTTAAAGTGGAGCAAAGCC
GTAGTTTTCAGGATCTTTTCTTGTTACACATATCATTTAATTTGAGCCTCAGAGCGGCT
AACAGTTTTGAGCACTTATGCTATGAAAATGTTTTGTGTATTAGTTAAATGTATGCATA
TCATACATTTATGTAACCAATACATATATATAAATGTGATATAACATACGTATGATATA
ACAGAGTTATATATATGTGTATTATTTAACTTAATATATAATGAGTTAAGTGTATGCATA
[T,A]
CATAGATTTATGTAACCAATATATAAAGAGTTATATAATACAACAGAGTTGATATATAT
ATAAATGTTGTATATAAACATAATATATACGTTAATATATATTAACAAAGAGTTGTATAA
TACAACACAGAGTTAATAATATATAAATACAACACAAAGAGTTATATATGTGTGATTAT
ACATTTAACTTAATATATAATGAGTTAAATGTATGTCTGTCCCATTCACCTCTCCATTGA

FIGURE 3ZZ

GGAAAGTACCATTATCTTCCCCAAGTTCAGAAGAAGAAAAACAGAGAAATATATTGAAATT

1221 ATATCATTTAATTTGAGCCTCAGAGCGGCTAACAGTTTTGAGCACTTATGCTATGAAAAT
GTTTTGTGTATTAGTTAAATGTATGCATATCATACATTTATGTAACCTCAATACATATAT
ATAAATGTGATATAACATACGTATGATATAACAGAGTTATATATATGTGTATTATTTAAC
TTAATATATAATGAGTTAAGTGTATGCATATCATAGATTTATGTAACCTCAATATATAAAG
AGTTATATAATAACAACAGAGTTGATATATATAAATGTTGTATATAAACATAATATATA
[C, T]
GTTAATATATATTAACAAAGAGTTGTATAATACAACACAGAGTTAATAATATATAAAATAC
AACACAAAGAGTTATATATGTGTGATTATACATTTAACTTAATATATAATGAGTTAAAT
GTATGTCTGTCCCATCAACTCTCCATTGAGGAAAGTACCATTATCTTCCCCAAGTTCAG
AAGAAGAAAAACAGAGAAATATATTGAAATTGAGCAATTTGCTGGTGTGGTCAAGTCCAAC
CCAGAAGCTTGCTTCTTTTACATTGTAGTACCCTCCAGGGTATGCAGAAACAGATAGCTAG

2011 TAGGCTGCTATTGATGAGCCATGCAGTGTTTTCTCCTGTTGCTTGATGTTTTTATTCTG
AAATCATGGTTGGTTTTCAAACACAAAAGTTTTCACTACAGTGATACAGATGAGGTTTTAT
GTTTCCGCCACAGTCTATACTCAGGGTGCCTAGAGTATAGCATATTATTAGGGTACTATT
TCTTTTCTATCCTAGATATCCAACCTAAGGCTTCGGGACATGTTTTGAGCGAAGATGGGT
GTTTCTGCCCCGATAGTATAAATCGAGGATCCAGGTCTGGGCAGATTCAACCATGGGAGC
[G, C]
AACACTTCAAGAAAAACCACAGTGTTTGATGAAAATGAAGATGGTAAGAAATATGGGATA
GTGGCATATAAAAAATAGAATTTTGCAAAATCAAGTATATGCTTCTAGTTTCATAAGTT
AAGCATAAGCATGGTCTGTAGGGCTTGAAAGAAAAAGGCAAGCTGCATGAGTGAGTCT
GAGGACTTTGTAGGCTCATAGCTAGGTTTTACCTTCCACTTTCATGGGACCTTTGGCAG
CTTCTCAATCTCCACTATACCAATGTCCTTGTCCAAAGGGAGCTGCAGTTGGGCATGT

4309 GAAAACTTTTTTTTCATGGCTATTGTGATTGCCTTGCTTTAACTTATCAAATAGTAAAAG
CAAAGATCTAGAGACTAGTGATTTACTTAATTTTTCTGTCTCTAAAATGGAAAGACAAA
TAGGCTTGCTTTTCAATTTAGTTGGTTTTCTCTGCTTCTCTGGACTCAGAGCTAATGTTG
TACATGAGGCTGGTCTGTCAGAGAATAGGGTGGAAAAGAGAGGCCAGCTGCATACTTTTAA
CTTGCTGGGCTACATTTGAAGGTAGTAGAATAGCATTATGATGAGAAAACACAGAAATGC
[A, C]
TAACTCTTCCTTGATTGAGCCAGGCTTTGTTCTTGCGGGATGCCCAAGAAAGCTACATAA
CCAAAGAATTGTGACAATTGGGAAATAAGATAACCCCTTTTTAGTTACTTTAAAGGACTCT
AGAAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGACCAGACAGGTCTTTCTTAACACCC
TCTAGGTCAACACCTTTTCTGTTGTCTGGCTTCTCAGCCCAATGAGATGAACCCACTGCA
GCACCCATAAAGGAAAGATCTGAGCATAGCAACAAGTCTGTGCCTCCCAAAGGTGCTAGG

4345 CTTTAACTTATCAAATAGTAAAAGCAAAGATCTAGAGACTAGTGATTTACTTAATTTTT
CTGTCTCTAAAATGGAAAGACAAATAGGCTTGCTTTTCAATTTAGTTGGTTTCTCTGCTT
CCTCTGGACTCAGAGCTAATGTTGTACATGAGGCTGGTCTGTCAGAGAATAGGGTGGAAAA
GAGAGGCCAGCTGCATACTTTTAACTTGCTGGGCTACATTTGAAGGTAGTAGAATAGCAT
TATGATGAGAAAACACAGAAATGCATAACTCTTCTTGATTGAGCCAGGCTTTGTTCTTG
[C, T]
GGGATGCCCAAGAAAGCTACATAACCAAGAATTGTGACAATTGGGAAATAAGATACCCCTTTT
TTTTTAGTTACTTTAAAGGACTCTAGAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGA
CCAGACAGGTCTTTCTTAACACCCTCTAGGTCAACACCTTTTCTGTTGTCTGGCTTCTCA
GCCCAATGAGATGAACCCACTGCAGCACCCATAAAGGAAAGATCTGAGCATAGCAACAAG
TCTGTGCCTCCCAAAGGTGCTAGGCTCTCTGTCTGTTTATGCAGACAGTTGCAAGGCAAA

4651 GCCCAAGAAAGCTACATAACCAAGAATTGTGACAATTGGGAAATAAGATACCCCTTTTT
AGTTACTTTAAAGGACTCTAGAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGACCAGA
CAGGTCTTTCTTAACACCCTCTAGGTCAACACCTTTTCTGTTGTCTGGCTTCTCAGCCCA
ATGAGATGAACCCACTGCAGCACCCATAAAGGAAAGATCTGAGCATAGCAACAAGTCTGT
GCCTCCCAAAGGTGCTAGGCTCTCTGTCTGTTTATGCAGACAGTTGCAAGGCAAGGAAG
[T, C]
AGGAGGGCAAGTCCACCTACTATAAACCTGTCACTCTCTAGACATGAAGAATAGAGGAGG
AAACAAGTTGGTCTTGCTCTGTCTGTTGTAACCCCATGTTCTGATGATGGAAGGCTGAC
AATAAAAAGGTAATAATACATAAACACAGATAATTTACAGTGCCTTAAAGTGCCACCA
GGAAATGACTCCTAGTGATCTTACAGACAGTGACAGTGATGGTGAGGAGGCCACTTTAGA
TAGGGTGGCTGCGGTTGCTTTCTAAGGAGGTGACATTTGGGCTGAAGCCTGAAAGATGA

FIGURE 3AAA

5037 TTGTGAACCCCATGTTCTGATGATGGAAGGCTGACAATAAAAAGGTAATAATACATAAA
CCAGATAATTTACAGTGCCTTAAAGTGCCACCAAGGAAATGACTCCTAGTGATCTTACA
GACAGTGACAGTGATGGTGAGGAGGCCACTTTAGATAGGGTGGCTGCGTTGTCTTTCTA
AGGAGGTGACATTTGGGCTGAAGCCTGAAAGATGAGAAGAAGCCATCTATGAAATGACAT
GAAAAGAATAGTTCAAGAACAGGAAAAACAAGTCCAAAATCCAAATAATGACAAAATCAG
[A, G]
ATTGAATAGTTGCTATATCTTAACGTTCTCTCATGAGCACTAGTTTGCCAAAGAGACTG
CATTTATTGCCATGTTAACTTATTTCTTCAAAAGATGATTGATTTGAGGAGAAAAAGTAT
GCCATTCTAGGGAATTTACTTTGCTTTAAAATTGAGTACATTTTGTAAAGTTCATTTGAC
TCTTCACATAAATCTGGATTGAGCACAAGGTAAAATTGTATCTGATTGCTGTGAAGCTCC
TGACCAAGAAAAAGCAACCAAAAAGCACTGATTAACCAACAACATTAATGCTTATGTCA

5126 CACCAAGGAAATGACTCCTAGTGATCTTACAGACAGTGACAGTGATGGTGAGGAGGCCAC
TTTAGATAGGGTGGCTGCGTTGTCTTTCTAAGGAGGTGACATTTGGGCTGAAGCCTGAA
AGATGAGAAGAAGCCATCTATGAAATGACATGAAAAGAATAGTTCAAGAACAGGAAAAAC
AAGTCCAAAATCCAAATAATGACAAAATCAGGATTGAATAGTTGCTATATCTTAACGTT
CTCTCATGAGCACTAGTTTGCCAAAGAGACTGCATTTATTGCCATGTTAACTTATTTCTT
[C, T]
AAAAGATGATTGATTTGAGGAGAAAAAGTATGCCATTCTAGGGAATTTACTTTGCTTTAA
AATTGAGTACATTTTGTAAAGTTCATTTGACTCTTACATAAATCTGGATTGAGCACAAG
GTAAATTTGATCTGATTGCTGTGAAGCTCCTGACCAAGAAAAAGCAACCAAAAAGCACT
GATTAACCAACAACATTAATGCTTATGTCAATTTTGTATCCATATTTTATATACATA
ATCATAATGTATAATCAAACCTGGGCCAGTATCAAGGGCACTAAAATGAGCCAACCTTAATT

6048 ATCTGATCTTGAACACATAATTTTATTAGTTACTTATGTTGATCTTTATTAGCAAAAAAC
AAAGTAGGAGATTTTACAGGCTAGGCATGGTTGCTTACGCCTGTAATCCCAGCACTTCAGG
AGGCCGAGGCGGGCAGATCACGAGGTCAAGAGATCGAAACCATCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAATACAAAAAATAGCTGGGCATGCCAGTGTGCGCCTGT
AGTCCAGCTATTCAGGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTGAAGTTT
[G, T]
CAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAA
AAAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATT
ATACTATTGTTTTGCAGTTTTAGCTTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTAC
TTTTTTTTTATTATTGTGGTAAAAATGTATATAACAAAATGTACCATTTAATCATTTTAGA
ATATACGGTTTATGACATTAAGCACATTACGTTATCATGCAACCATCACCCTACCCAT

6229 ACCCATCTCTACTAAAAAATACAAAAAATAGCTGGGCATGCCAGTGTGCGCCTGTA
GTCCAGCTATTCAGGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTGAAGTTTG
CAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAA
AAAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATT
ATACTATTGTTTTGCAGTTTTAGCTTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTAC
[-, T]
TTTTTTTTTATTATTGTGGTAAAAATGTATATAACAAAATGTACCATTTAATCATTTTAGAA
TATACGGTTTATGACATTAAGCACATTCACGTTATCATGCAACCATCACCCTACCCATC
CTCAGAACATTTCTCTTCTCGAATTGAACTTGGTACCTCTGAAACAATAACATCCACAT
TCCATCCCCTCCCAGTCCCCTGTTAAACAACCATTTGACTTTATGTCTCTATGAATTTAA
CTACTCTATGTACCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTA

6328 GAACCTGGGAGGTGAAGTTTGCAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCA
ACAGAGCAAGACTCTGTCCAAAAAAAACGGCTTGCTTATTTGATTATATAAGATATCTT
TCATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGG
CAAATCTTAAGTCCTAATTACTTTTTTTTTTATTATTGTGGTAAAAATGTATATAACAAAAT
GTACCATTTAATCATTTTAGAATATACGGTTTATGACATTAAGCACATTCACGTTATCAT
[G, A]
CAACCATCACCCTACCCATCCTCAGAACATTTCTCTTCTCGAATTGAACTTGGTACCT
CTGAAACAATAACATCCACATTCATCCCCTCCCAGTCCCTGTAAACAACCATTTGAC
TTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATT
TGTTCTTTTGCATCTGGTTTATTTTCATTTAGCATATATTTTTAAGGTTTCATCCATGTTGC
AGCATGTGTCAAGATTCTCTTTCTTTTTAAGTCTGAGTCGTATTCCATTGTATGGATATA

6350 AGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAA
AAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATTA

FIGURE 3BBB

- TACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTACT
TTTTTTTTATTATTGTGGTAAAAATGTATATAACAAAATGTACCATTTAATCATTTTTAGAA
TATACGGTTTATGACATTAAGCACATTCACGTTATCATGCAACCATCACCCTACCCATC
[C, T]
TCAGAACATTTCTCTTCTCGAATTGAAACTTGGTACCTCTGAAACAATAACATCCACATT
CCATCCCCTCCCCAGTCCCTGTTAAACAACCATTTGACTTTTATGTCTCTATGAATTTAAC
TACTCTATGTACCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTAT
TTCATTTAGCATATATTTTAAAGGTTTCATCCATGTTGCAGCATGTGTCAAGATTCTCTTT
CTTTTTAAGTCTGAGTCGATTCCATTGTATGGATATACCACATTTTGTATCTTTTCA
- 6382 CTGGCAACAGAGCAAGACTCTGTCCAAAAAAGCGCTTGCTTATTTGATTATATAAGA
TATCTTTTATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCTTTTATGTT
TTAGGGCAAATCTTAAGTCCTAATTACTTTTTTTTTATTATTGTGGTAAAAATGTATATAA
CAAAATGTACCATTTAATCATTTTAGAATATACGGTTTATGACATTAAGCACATTCACGT
TATCATGCAACCATCACCCTACCCATCCTCAGAACATTTCTCTTCTCGAATTGAAACTT
[G, T]
GTACCTCTGAAACAATAACATCCACATTCATCCCCTCCCCAGTCCCTGTTAAACAACCA
TTTGACTTTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATAT
AAGATTTGTTCTTTTGCATCTGGTTTATTTTATTTAGCATATATTTTAAAGGTTTCATCCA
TGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGATTCCATTGTATG
GATATACCACATTTTGTATCTTTTATTAGTTGACATTGATTGTCCTCACCTTTTGAT
- 6434 ATATAAGATATCTTTCATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCT
TTTATGTTTTAGGGCAAATCTTAAGTCCTAATTACTTTTTTTTTATTATTGTGGTAAAAAT
GTATATAACAAAATGTACCATTTAATCATTTTAGAATATACGGTTTATGACATTAAGCAC
ATTCACGTTATCATGCAACCATCACCCTACCCATCCTCAGAACATTTCTCTTCTCGAAT
TGAAACTTGGTACCTCTGAAACAATAACATCCACATTCATCCCCTCCCCAGTCCCTGTT
[A, -]
AACCAACCATTTGACTTTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATG
GAACATATAAGATTTGTTCTTTTGCATCTGGTTTATTTTATTTAGCATATATTTTAAAGG
TTCATCCATGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGATTCC
ATTGTATGGATATACCACATTTTGTATCTTTTATTAGTTGACATTGATTGTCCTCAC
CTTTTGATTTTTGTGAATAAGGCTGCTATAAACATTGGTGTGCAAAATATCTGTTCAAGTC
- 6722 CCAGTCCCTGTTAAACAACCATTTGACTTTTATGTCTCTATGAATTTAACTACTCTATGTA
CCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTATTTTATTTAGCA
TATATTTTTAAAGGTTTCATCCATGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTC
TGAGTCGATTCCATTGTATGGATATACCACATTTTGTATCTTTTATTAGTTGACAT
TGATTGTCCTCACCTTTTGATTTTTGTGAATAAGGCTGCTATAAACATTGGTGTGCAAAAT
[A, G]
TCTGTTCAAGTCCCTGTTTTCAATTCTTCAGGGTATATACCTAGAAGTGGAAGCACTGGA
TCATATAATTCTTGTTTGAATCTCTGAGGAACCATCATACTGTCTTCTACCTAATTATG
CTTTGTGTTTTAGTAATGGGACACAGCCTGGCATGATGGGCTAGAGTATTGGAAGGCAT
GCACAGGTTCAAGTCTCAGCTGTGCCAGTGCCAGTAATCTACATGTTTCTATGAGAAGA
GTCAAAGAGGATATAGCCTGGTCAACCATTATCAGACACTGGAGTCAGTTTGACTAATTA
- 6751 TATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATTTG
TTCTTTTGCATCTGGTTTATTTTATTTAGCATATATTTTAAAGGTTTCATCCATGTTGCAG
CATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGATTCCATTGTATGGATATACC
ACATTTTGTATCTTTTATTAGTTGACATTGATTGTCCTCACCTTTTGATTTTTGTGA
ATAAGGCTGCTATAAACATTGGTGTGCAAAATATCTGTTCAAGTCCCTGTTTTCAATTCTT
[C, T]
AGGGTATATACCTAGAAGTGGAAGCACTGGATCATATAATTCTTGTTTGAATCTCTGAG
GAACCATCATACTGTCTTCTACCTAATTATGCTTTGTGTTTTAGTAATGGGACACAGCCT
GGCATGATGGGCTAGAGTATTGGAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCAGG
TGCCAGTAATCTACATGTTTCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCAT
TATCAGACACTGGAGTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACC
- 6752 ATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATTTGT
TCTTTTGCATCTGGTTTATTTTATTTAGCATATATTTTAAAGGTTTCATCCATGTTGCAGC
ATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGATTCCATTGTATGGATATACCA
CATTTTGTATCTTTTATTAGTTGACATTGATTGTCCTCACCTTTTGATTTTTGTGAA

FIGURE 3CCC

TAAGGCTGCTATAAACATTGGTGTGCAAATATCTGTTCAAGTCCCTGTTTTCAATTCTTC
[A, T]
GGGTATATACCTAGAAAGTGAAGCACTGGATCATATAATTCCTTGTTTGAAGTCTCTGAGG
AACCATCATACTGTCTTCTACCTAATTATGCTTTGTGTTTTAGTAATGGGACACAGCCTG
GCATGATGGGCTAGAGTATTGGAAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCACGT
GCCAGTAATCTACATGTTTCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCATT
ATCAGACACTGGAGTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCA

7070 TGAAGCACTGGATCATATAATTCCTTGTTTGAAGTCTCTGAGGAACCATCATACTGTCTT
CTACCTAATTATGCTTTGTGTTTTAGTAATGGGACACAGCCTGGCATGATGGGCTAGAGT
ATTGAAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCACGTGCCAGTAATCTACATGT
TCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCATTATCAGACACTGGAGTCA
GTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCACAAGAAAAGTCTCCAAA
[T, C]
CTAAATAATTACTAATGAATTAATTGAGGGGGAACTTATTTAACCTTTGTAAGCCTCAG
TTTCTTTGTATGTAAAATGCAGGTAATAATTGGGCATACTTCATTAGGTCTTTGTGAGGA
TTGAATAAATAATGCAAGTAAACACTTAGCAAAGTATTTCCATAAAAGTAACCACTCAA
TTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTCCTAGTGTGAAGTCTTTGAAG
TACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAACTCTGTGATTCCACAGTTA

7306 GTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCACAAGAAAAGTCTC
CAAATCTAAATAATTACTAATGAATTAATTGAGGGGGAACTTATTTAACCTTTGTAAGC
CTCAGTTTCTTTGTATGTAAAATGCAGGTAATAATTGGGCATACTTCATTAGGTCTTTGT
GAGGATTGAATAAATAATGCAAGTAAACACTTAGCAAAGTATTTCCATAAAAGTAACCA
CTCAATTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTCCTAGTGTGAAGTCTT
[T, C]
GAAGTACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAACTCTGTGATTCCACA
GTTAATTAGACCTATTATGTTTCTATTGACTGGATTAACAGAACGGCAGATTTTATGGA
TTCTGTTAAAAACCTATATAAAAAACACTTTAAAAAGAAGCCAAGTTATTGACTGCACAAAA
CATAATCTCATCTGATATCTTTTTTATCCCCCTGAGGTTATTGTGTTTTTGTGTTAAGGCA
AAATCAAGAACTAATTGGGATGAAAAATACTAAAGTTTACTTTGTCTGATTTAAGTCCCA

7339 AACTTGAGGTACCACAAGAAAAGTCTCCAAATCTAAATAATTACTAATGAATTAATTGAG
GGGGAACCTTATTTAACCTTTGTAAGCCTCAGTTTCTTTGTATGTAAAATGCAGGTAATA
ATTGGGCATACTTCATTAGGTCTTTGTGAGGATTGAATAAATAATGCAAGTAAACACTT
AGCAAAGTATTTCCATAAAAGTAACCACTCAATTAATGCTAATTAAGTGTTATTTACTAA
CATCAGAGTTTCCTAGTGTGAAGTCTTTGAAGTACTTTAAGTTCTGAGAAAAACAAAAT
[A, G]
ATTAATGCAACTCTGTGATTCCACAGTTAATTAGACCTATTATGTTTCTATTGACTG
GATTAACAGAACGGCAGATTTTATGGATTCTGTTAAAAACCTATATAAAAAACACTTTAAAA
GAAGCCAAGTTATTGACTGCACAAAAACATAATCTCATCTGATATCTTTTTTATCCCCCT
GAGGTTATTGTGTTTTTGTGTTAAGGCAAAATCAAGAACTAATTGGGATGAAAAATACTAA
AGTTTACTTTGTCTGATTTAAGTCCCAACTGACTAATAAGTAATCCCATTGATCAACA

7531 CCCATAAAGTAACCACTCAATTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTC
CTAGTGTGAAGTCTTTGAAGTACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAA
CTCTGTGATTCCACAGTTAATTAGACCTATTATGTTTCTATTGACTGGATTAACAGAA
CGGCAGATTTTATGGATTCTGTTAAAAACCTATATAAAAAACACTTTAAAAAGAAGCCAAGTT
ATTGACTGCACAAAAACATAATCTCATCTGATATCTTTTTTATCCCCCTGAGGTTATTGT
[G, A]
TTTTTGTTTTAAGGCAAAATCAAGAACTAATTGGGATGAAAAATACTAAAGTTTACTTTGT
CTGATTTAAGTCCCAACTGACTAATAAGTAATCCCATTGATCAACAGATTGAGTGAAG
ACTGTCCCCATTCTCAACTACCATATGGATATTCTGAGAAATAATTAATGATGCAGAAA
AACATTTTTTGTGTTTCTGAAATAAAAGAATAGACGTGCAAGTGACACTTCTTTTTAATGC
TTACAACCTTTTTTAAAAATCTACTTTATTTTCTCTATCTGAATGCACTAGATTTTGTT

8902 AAGTCCAATTTATGGCAAGGGTTTTAATTTGTAAGGGCTTTATTTCTCCATACAAAGGGA
TTGGAGAAACAACTAGAAAGCCAGAAAACAGACCACAAACACTGAGCTAGTGGTCCAA
CTGGAGTGTCCCTGAGCAGTGACTTATGAATACTTGTTAGAAAGTCAACTCAAACAA
ATTTAGGAAAGTCACATCCTGCCTTTAGAGCTTCCAGTGTTTGTAGCATATTAAGTCT
CTGAAATGACCTACAATATTGAAATCTCAGTCTTCTGCTATTTTTAATATTTATTTCAA
[A, G]

FIGURE 3DDD

TGAAATAATTTTTGTGAAAAACATTTTAATGTCTGTGGCTCATAATATTCTGTGGATCTC
AGTTTGGGAAATGAAAGATTATAATCGTATCTACTCTTTATCTGTTGGAAACATCTTTCC
ATTTATTTTTCTGCTGGTTTAATGGCAACAAATTTTACATGTGAAATATTTGTAATGT
GATTTATATGAAAAATGTAATTTTCTTATTACACGATCAAAGTGGTTATGCTCCTCTG
TAAGTTTTCTTACAAGTTTTATGTTGCATAATTTATATCTATTTGGTTTAATGAGTA

9471 GCATAATTTATATCTATTTGGTTTAAATGAGTACAACACAAGATAGCTCAGTTTAATTCTG
GGATGTTGGATGTTTCTAGTTAAAGTACAAGTTGGATTTGATGAAAATTCATTGCTTCTT
TATGATTTTTTAAACTCAAGAACATGTTAGTTAAAGAGTGTCTTCTGAACAAATCTTG
TGAAGTAGTTGCTGATTATTAAGTAACACTCATGCTACCGTAACCTTTTATACTATCCAA
AGCTATAGACATTTTAAATTTTCAACTTGCAACTACCTAGGTTGAAAAATTAATCTGCA
[G,A]
GCCAGTTTCATTATTCAGACAATTTGGTTATCACTTCAAGCCTACTATCTTCAAAGAAAA
TGGGAGTGAGGCTTTCATGGGAGCTGACTTCTGCTGTATGGCCTTGCAAAATGTCAACTC
GATTAGAGTGACCAAGTGTAGCCCTCAATTCACAAACTCAGGTCCCATGAAATATACAGG
GATTTCTACTATGCATTACTATGTGACCATTCTGGAAGTTTCGTTTGAAACACAGACA
TTAAAAAGCCAGTCATGGAATAACATTCTTGTTAAACAGGACATTGGCAAAAGGACTA

10023 GTCATGGAATAACATTCTTGTTAAACAGGACATTGGCAAAAAGGACTAGAAAACCTCTG
GCTATAGATTTTGAATCCAATAGCCTTGCATAGGCTTTTCTGTTTCTCCTAAACTATGT
CTTCTGCTCTTTCTGGAGGCATATTTATAGTAAATAAACAAAATTAACCTTGTTTTACA
CTTGAGTAACCTATACCTTTGGTTATTTACGAGAATTACTTAAAGCAGAGTTGGCAACTT
TTTCTGTGATGGGCTGATACTAAATATTTTACACTTTCCAAGTAATACAGTCTCTGTCA
[C,T]
AACTACTCAACTCTGCCACTGTAGCATAAAAGCACACTTAGACAATGCAGAAACAAATGA
ACATGGCTTTGTTCCAATAAAACTTTATTTATGGACACTGAAATGTGAATTTCAAAAATA
TTTTTGCATAAGATCAAATATTATTCTTTGATTTTTTCCAATCAATAAAAAGTGTA
AAATTGGCCGGGCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGG
GCAGATCACCTGAGGTCACGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCTGTCT

10594 CAGCCTGACCAACATGGAGAAACCCTGTCTATATTAATAACAAAATAGCTGGGTGTG
GTGGGGCCTACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAATG
CAGGAGGCAGAGGTTGCGGTGAGCCCAGATTGCACCATGCACTCCAGCCGGGGCAACAA
GAGCAAACTCCGTCTCAAAAAAAAAAAAAAAAAAAGTGTAATAAACCACTTTAGTTCA
TGAGCTATACAAAATAGATAGTGAGTTAGATTTGGCCCATGGGGCTTATTTGCTGACT
[C,G]
CTGCTCTAAGCATCTTGACAGACATTTCTTCATATGCCCTAGGAGATTTCTGATATCCCCT
CATAATACCCTGGCCTTACACCAAGACTACAACTCTGTTCTTTGCAGATGCTTAATAAATT
CATTCTTCCCTGTCAATTCAGTTGATCTGTGTGAGCCAGTGGAATACTTGGGCCAATAAA
TCTAGTGTGTTGAGGGTAAATATGCTATTTTGTAGATATATTATTTAATGGCCACA
CAACCTAAATTCAATTAATGGTTACAACCTGTAACGCATTTAAATATGACTAGGCAGA

11233 CATCCAACAGTTGATGTTGATCCCCCATCCTGCCCACTGTTCTACTTTGCAATTTGTT
TGAAAGAAATTGTCAATATATTTCTGACTTCTGAGCAAATCCATGAATCGGGATCCAGCA
ACAGGAAAAGAAGCTGTTGCTGCCCATTTGCTTGGTTTTGGCACCAGGAATGGATAAATCC
CAGACTTCTGGGGCACGTGTTTTATAAAAGGGAAGTGCTGACAGTGCAACAGCTGCCA
TCAATTGGCCTTGAGACTACTTCCCTGGAGAAGCTCCAATTATATTCTTAAAGGACCCA
[C,T]
CAAGCTCTTCAAGTGTTAGTGGAACCATTTGCTGCCAACCATTGAAATGATGAAGTAA
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGAAGTATCTTCAACCTTAACCTA
ATATCATGGCATCAGAGGGCTACAGATTAATCAGTGTTCCAGTCACTCTCTGTGGAC
AAGTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGAAGAGAAAAATTAGGACAAT
GTAATAAGCATCCCATAAACTTATTAACCTATTAAATTTAATTTTAAGATTATGTCAT

11295 AAAGAAATTGTCAATATATTTCTGACTTCTGAGCAAATCCATGAATCGGGATCCAGCAAC
AGGAAAAGAAGCTGTTGCTGCCCATTTGCTTGGTTTTGGCACCAGGAATGGATAAATCCCA
GACTTCTGGGGCACGTGTTTTATAAAAGGGAAGTGCTGACAGTGCAACAGCTGCCATC
AATTGGCCTTGGAGACTACTTCCCTGGAGAAGCTCCAATTATATTCTTAAAGGACCCACC
AAGCTCTTCAAGTGTTAGTGGAACCATTTGCTGCCAACCATTGAAATGATGAAGTAAT
[-,A,T]
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGAAGTATCTTCAACCTTAACCTAAT
ATCATGGCATCAGAGGGCTACAGATTAATCAGTGTTCCAGTCACTCTCTGTGGACAA

FIGURE 3EEE

GTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGGAAGAGAAAAATTAGGACAATGT
AATAAGCATCCATAAACTTATTAACCTATTAATAATTTAATTTTAAGATTATGTCATTT
TTTGTATGTGTATGCTTAGTATTTATGGATTGTGGAAATAGAATTTTTTTTTTATAGT

11534 CAAGCTCTTCAAGTGTTAGTGGCAACCATTTGCTGCCAACCATTTGAAATGATGAAGTAA
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGAAGTATCTTCAACCTTAACTA
ATATCATGGCATCAGAGGGCTACAGATTAAATCAGTGGTCCAGTCACCTCTGTGGAC
AAGTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGGAAGAGAAAAATTAGGACAAT
GTAATAAGCATCCATAAACTTATTAACCTATTAATAATTTAATTTTAAGATTATGTCAT
[-,T]
TTTTGTATGTGTATGCTTAGTATTTATGGATTGTGGAAATAGAATTTTTTTTTTATAG
TGAGAACCTAGGTAAGTGACTTACCTCTCTGATCCCCCATTTTCTCATATGTAGAAGGGG
GCTAATAATAGTATCTGTCTCATAGTTTTGTGAGAATAAAAAAATTGTCCAGGTAAAT
GCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGTTAGCTATTATTGCTATCA
TTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATAAAAGAACAAAAGTCACC

11757 AGAAAAATTAGGACAATGTAATAAGCATCCATAAACTTATTAACCTATTAATAATTTAA
TTTTAAGATTATGTCATTTTTTGTATGTGTGTATGCTTAGTATTTATGGATTGTGGAAAT
AGAATTTTTTTTTTATAGTGAGAACCTAGGTAAGTGACTTACCTCTCTGATCCCCCATTT
TCTCATATGTAGAAGGGGGCTAATAATAGTATCTGTCTCATAGTTTTGTGAGAATAAAA
AAATTGTCCAGGTAAATGCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGT
[T,C]
AGCTATTATTGCTATCATTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATA
AAAGAACAAAAGTCACCCGATATTGATCTCCCTTTTCTCCCTAGTTTTCTGGGGGGTGG
GAGGCAGAGACCGAATTTTCTGATCTGTGAAATCTGAATTTATCATTGTAATTTCCATA
AGTGCTATGTAGAGAACTCATTTAAGTTGCTGGGATGAAAAAAAATCAAAAGTGGCCTAT
TGTGCTGGGTGCAGTGGTTCACGCCTGCAATCCCAGCACTTTGGGAGGCTGAGGGGGGTG

11951 GGGGGCTAATAATAGTATCTGTCTCATAGTTTTTGTGAGAATAAAAAAATTGTCCAGGTA
AAATGCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGTTAGCTATTATTGCT
ATCATTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATAAAAGAACAAAAGT
CACCCGATATTGATCTCCCTTTTCTCCCTAGTTTTCTGGGGGGTGGGAGGCAGAGACCG
AATTTTCTGATCTGTGAAATCTGAATTTATCATTGTAATTTTCCATAAGTGCTATGTAGA
[G,A]
AACTCATTTAAGTTGCTGGGATGAAAAAAAATCAAAAGTGGCCTATTGTGCTGGGTGCAG
TGGTTACGCCTGCAATCCCAGCACTTTGGGAGGCTGAGGGGGGTGGATCGCCTGAGGTC
AGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCTTGACTCTACTAAAAATACAAAA
ATTAGCCTGGCATGATGGTGGGCACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGA
GAATCCCTTGAACCCAGGAGGTGGAGGATTCAGTGAGCCGAGATCTACTGCACTCCAGCC

12901 AGTGATTATGGGACAGCTAAATGATGGTGCCAAGTAGGAGCTGGAGTAGAGTATCCAGCA
ATGAGTGGAACATCTGGGATGGAGACAGAAAGACACGGGTATTAATTCTACGGGGATGG
CTAAGTCTGCTCTGAGAGACAGTGTGGAGACCAAGGAGAAGAGGAATCCTAATTTTGA
AACAAGGCAGTGGATAGCAATCTAGCTATGGAAAGTGGAAGGAAAGAGATAGTTGATCAT
CCAGTTCAACACTACTCTTGTTGTAGTTCACTTATGTTGAATGCTTCTGTGTGACTAAGT
[C,A]
GGTGAGAAAAATCTATGGGAGTAGGCAACATGGAGGATGTTGGTATTCACAAAAGCAGTT
TAGTGGAGTGTGGAGGCCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGA
ATGCAGATATGGGCCCAGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCA
AGGTGAGCAGATCACAAGGTGAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCC
ATCTCTACTAAAAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCTGTAGTCCAGC

13040 CAGTGTGGAGACCAAGGAGAAGAGGAATCCTAATATTTAGAAACAAGGCAGTGGATAGCA
ATCTAGCTATGGAAGTGGAAGGAAAGAGATAGTTGATCATCCAGTTCAACACTACTCTT
GTTGTAGTTCACTTATGTTGAATGCTTCTGTGTGACTAAGTCGGTGAGAAAAATCTATGG
GAGTAGGCAACATGGAGGATGTTGGTATTACAAAAGCAGTTTATGGAGTGTGGAGGCC
TGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATATGGGCCAG
[C,T]
GCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAGATCACAAGG
TCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAAAAATACAA
AAAATTAGCCGGGCCTGGTGGCGGGTGCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCA
GGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCAC

FIGURE 3FFF

TCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAG

13081 AACAAGGCAGTGGATAGCAATCTAGCTATGGAAAGTGAAGGAAAGAGATAGTTGATCAT
CCAGTTCAACACTACTCTTGTGTAGTTCACTTATGTTGAATGCTTCTGTGTGACTAAGT
CGGTGAGAAAAATCTATGGGAGTAGGCAACATGGAGGATGTTGGTATTCACAAAAGCAGT
TTAGTGGAGTGTGGAGGCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAG
AATGCAGATATGGGCCAGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCC
[A,G]
AGGTGAGCAGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCC
ATCTCTACTAAAAATACAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCAGC
TACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGC
CGAGATGGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAA
AAAAAAAAAAGAATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAA

13173 TATGTTGAATGCTTCTGTGTGACTAAGTCGGTGAGAAAAATCTATGGGAGTAGGCAACAT
GGAGGATGTTGGTATTCACAAAAGCAGTTTGTAGTGGAGTGTGGAGGCTGAGCCAGACTAG
AATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATATGGGCCAGCGCGGTGGCTCAC
GCCTGTAATCCAGCACTTTGGGAGGCCAAGGTGAGCAGATCACAAGGTCAGGAGATCGA
GACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGG
[G,T]
CCTGGTGGCGGGTGCCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTG
AACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTGGGCA
ACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAGATATGGCAAGTAT
AGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAGAAATAACAAAGAGATGATGC
CTAATATAATTAGCTAAATGTAATATAATGGATTTTTTTAAGATGAGGTACTAGAGCAT

13272 TGGAGGCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATAT
GGGCCAGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGTGAGCAG
ATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTA
AAAAACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCAGCTACTCGGGAG
GCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTG
[C,T]
CACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAA
GAATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAG
AATAAACAAAGAGATGATGCCTAATATAAATTCAGCTAAATGTAATATAATGGATTTTTT
TAAGATGAGGTACTAGAGCATGTAATATAAATCTATTAAATTGGGTGGCCAGGAACCAGG
ACTGGCTCATCAGCATGGACCAGGCTAGACGCACAGGGCCTTATATCCAGAAGGACATCA

13333 GGCCCAGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGTGAGCAGA
TCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAA
AAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTG
CACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAA
[A,-,G]
AATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAGA
AATAAACAAAGAGATGATGCCTAATATAAATTCAGCTAAATGTAATATAATGGATTTTTT
AAGATGAGGTACTAGAGCATGTAATATAAATCTATTAAATTGGGTGGCCAGGAACCAGGA
CTGGCTCATCAGCATGGACCAGGCTAGACGCACAGGGCCTTATATCCAGAAGGACATCAC
CTTTGGGTTTTAATGCTCTGCACTTGCTGTCTCCAAATTCCTAACTGTCTCTTAGGCTCTC

13485 GTGCCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGG
TGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAGATATGGCAAGTATAGACAAGCTTC
AAGAAGTTTGGTCTAAAAGGAAGCGGAGAAATAACAAAGAGATGATGCCTAATATAATT
CAGCTAAATGTAATATAATGGATTTTTTTAAGATGAGGTACTAGAGCATGTAATATAAAT
[C,A]
TATTAATTTGGGTGGCCAGGAACCAGGACTGGCTCATCAGCATGGACCAGGCTAGACGCA
CAGGGCCTTATATCCAGAAGGACATCACCTTTGGGTTTTAATGCTCTGCACTTGCTGTCT
CCAAATTCCTAACTGTCTCTTAGGCTCTCATCAACACCCACCTCCATATCCAGATATTGAG
TACCTCAGGGAGTTCAATTTGGAAGCAATGATGTGAAAATGTACTTTACTATCCAGTAA
CATTCTTGTTAGGGAGTGTGGCAGAGATTGTGCAACAACCATTAATGCATTTTATCATTC

FIGURE 3GGG

13933 CATCAACACCCACCTCCATATCCAGATATTGAGTACCTCAGGGAGTTCAATTTGGAAGCA
AATGATGTGAAAATGTACTTTACTATCCAGTAACATTCTTGTTAGGGAGTGTTGGCAGAG
ATTGTGCAACAACCATAATGCATTTTATCATTGATCAGTCTACAATTTAAACATAGCAG
GACTGGACAGAGGCACAGGAAGATTAAGCCACTGACCTTAAGTACAGACAGTCACATGGGT
AGATCCGGAATCTTGATCTAAAATGAATACCATTTTTTCAGTTATAGCTATCTTCCCAGG
[A, T]
TGGCCAACCGAATGCATATATAAAATTTCAAAAACAAACATTGGGAATTGCTCTTCAGC
AAGAATACATCAAAACCCATTATGTGCCTAACTCTAAATCTTACTTTAGAGAGCTAAA
AACAATTTTATTTACAGTGACATTCATCTTCGCTTCTGCCGTAACCTACATGCATATGC
CTTAGACCACATTATTAATGAAGTATTGGGGGGTTCCATCTAGAGCACCTTTTCTTCCCT
GGAGTTAATCATCCAGTTCAGCACCACTCTTGAGCTTTGCTTAGCTTCTTCTACCCATT

14086 GATCAGTCTACAATTTAAACATAGCAGGACTGGACAGAGGCACAGGAAGATTAAGCCACT
GACCTTAAGTACAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAATACCAT
TTTTTCAGTTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAATTTCAA
AAACAAACATTGGGAATTGCTCTTCAGCAAGAATACATCAAAACCCATTATGTGCCTAA
CTCTAAATCTTACTTTAGAGAGCTAAAAACAATTTCAATTCACAGTGACATTCATCTTC
[G, A]
CTTCTGCCGTAACCTACATGCATATGCCTTAGACCACATTATTAATGAAGTATTGGGGGG
TTCCATCTAGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACTCTTGA
GCTTTGCTTAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGCCTTTA
TCCATGTATTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATCCCAAC
ACTTTGGGAGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCCTGGGC

14094 TACAATTTAAACATAGCAGGACTGGACAGAGGCACAGGAAGATTAAGCCACTGACCTTAA
GTCAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAATACCATTTTTTTCAG
TTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAATTTCAAAAACAAAC
ATTGGGAATTGCTCTTCAGCAAGAATACATCAAAACCCATTATGTGCCTAACTCTAAAT
CTTACTTTAGAGAGCTAAAAACAATTTCAATTCACAGTGACATTCATCTTCGCTTCTGC
[C, T]
GTAACCTACATGCATATGCCTTAGACCACATTATTAATGAAGTATTGGGGGGTTCCATCT
AGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACTCTTGAGCTTTGCT
TAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGCCTTTATCCATGTA
TTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATCCCAACACTTTGGG
AGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCCTGGGCAACATGGT

14141 CCACTGACCTTAAGTCAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAAT
ACCATTTTTTTCAGTTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAAT
TTCAAAAACAAACATTGGGAATTGCTCTTCAGCAAGAATACATCAAAACCCCATTTATGTG
CCTAACTCTAAATCTTACTTTAGAGAGCTAAAAACAATTTCAATTCACAGTGACATTCAT
CTTTCGCTTCTGCCGTAACCTACATGCATATGCCTTAGACCACATTATTAATGAAGTATT
[G, -]
GGGGGTTCCATCTAGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACT
CTTGAGCTTTGCTTAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGC
CTTTATCCATGTATTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATC
CCAACACTTTGGGAGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCC
TGGGCAACATGGTGAGACTCCATCTCTACCATTTTTTTTTTTAATTAGTTGGGTATGGTGG

14831 ACAATTTATTTTCATCATCATTGTCATCATCATTGTCAGTCTCACTCTTCAACATTTTTT
AGGTCAACTTAATTAATATGATACCTTGTTGGGATAATTTTTATTTATTTTATAAAATAT
TGAAGTTTTTGCCACTTTGATAACTTCTTCATTTTCTGTCCAGAGTATAACATACCAGGG
AAAAGGCTCTAAAATAAGGCTTGAGGTATTAAGGATCTTCTGTTTAAAGTCTTATGTTT
CTAATCAATAACTAGAATTGGCCTGATTGCTTCTCAGTGAGGTTTTCTGGTAGTCCTGA
[T, C]
ATGATATCGAGGCTGTCATATAGTCCTGAAATATCCTATCATTAACATTTGTGGTGGTAT
CTGATATAAAGGTAGATGAACCTTCATTGCAGCTATTCTTAGGAAATGCGTATTTAAATGC
ATAGTTAAAAGCAAGATTTACAATTATAGAAGGAATGCAAATGAGTTGTAGAAAGCTCAT
AAAATAAAAAATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCCAAGTATAACCACTGC
TAATATTTTTGGCTGTTTTCAATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTC

15319 AAATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCAGTGATAACCACTGCTAATATT
TTTGGCTGTTTTCAATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCA

FIGURE 3HHH

CTATGTTTTCTACTATATTTCTTGTTAAATTTACTTAATTATTTGTTAATTATGTTTT
CCTCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGATTTTGTCTATTTTGTTCACTTTT
GTATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAACTGT
[T,C]
GTATGTGTATAAAAGACACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCT
CATTTTACCATAGGTAGTTTATGTCAATTCTTGAAATTTGTTGATTTTCTTGAATAAT
TTAGCAGTTGTACAATTCTAAACATAAATATAATTTGCTTAAATATACATACCATTTTA
AACATATTTAAATGTGAAATACAGTTGAGTTCTCTAGATTGCAATTTTGTAACTTTTG
ATAATCCTTTGATCCTGAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTT

15321 ATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCCAGTGATAACCACTGCTAATATTTT
TGGCTGTTTTCATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCACT
ATGTTTTCTACTATATTTCTTGTTAAATTTACTTAATTATTTGTTAATTATGTTTTCC
TCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGATTTTGTCTATTTTGTTCACTTTTGT
ATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAACTGTG
[T,C]
ATGTGTATAAAAGACACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCTCA
TTTTACCATAGGTAGTTTATGTCAATTCTTGAAATTTGTTGATTTTCTTGAATAATTT
AGCAGTTGTACAATTCTAAACATAAATATAATTTGCTTAAATATACATACCATTTTAAA
CATATTTAAATGTGAAATACAGTTGAGTTCTCTAGATTGCAATTTTGTAACTTTTGAT
AATCCTTTGATCCTGAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTTG

15335 ATTACCCATCATGCCTCAGCCCAGTGATAACCACTGCTAATATTTTGGCTGTTTTCAT
TGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCACTATGTTTTCTACTAT
ATTTCTTGTTAAATTTACTTAATTATTTGTTAATTATGTTTTCTCTCACTAGAAAGT
GAAGTCCATGAGGGCCAGGGATTTTGTCTATTTTGTTCACTTTTGTATCCTTAGCACCTA
CTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAACTGTGTATGTGTATAAAG
[A,G]
CACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCTCATTTTACCATAGGT
AGTTTATGTCAATTCTTGAAATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAAT
TCTAAACATAAATATAATTTGCTTAAATATACATACCATTTTAAACATATTTAAATGTG
AAATACAGTTGAGTTCTCTAGATTGCAATTTTGTAACTTTTGATAATCCTTTGATCCT
GAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTGGAGTATTTAAATCAT

15477 ATTATTTGTTAATTATGTTTTTCTCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGAT
TTTTGTCTATTTTGTTCACTTTTGTATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCA
TTAATGATCTATTTTAACTGTGTATGTGTATAAAGACACTTGATATATCTGGGATGA
TATCAATATACTTTTGTATCCTCATTTTACCATAGGTAGTTTATGTCAATTCCTTGAA
ATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAATTCTAAACATAAATATAATTT
[G,A]
CTTAAATATACATACCATTTTAAACATATTTAAATGTGAAAAATACAGTTGAGTTCTCTTA
GATTGCAATTTTGTAACTTTTGTAAATCCTTTGATCCTGAAAAAATTTTTTGGCATGAG
GGAAGAGATGAATATTTCTTTGGAGTATTTAAATCATCTCTGCAATAATCCTTTGATCC
TGAAAAAATTTTGTGGCATGAGGGAAGAGAGAAGAAATATTTCTTTGGAGTGTTTAAATCA
TCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTATTTAGGTAGGATTAATTTT

15650 GGGATGATATTCAATATACTTTTGTATCCTCATTTTACCATAGGTAGTTTATGTCAATT
CCTTGAAATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAATTCTAAACATAAAT
ATAATTTGCTTAAATATACATACCATTTTAAACATATTTAAATGTGAAAAATACAGTTGAG
TTCTCTAGATTGCAATTTTGTAACTTTTGTAAATCCTTTGATCCTGAAAAAATTTTTT
GGCATGAGGGAAGAGATGAATATTTCTTTGGAGTATTTAAATCATCTCTGCAATAATCC
[T,C]
TTGATCCTGAAAAAATTTTGTGGCATGAGGGAAGAGAAGAATATTTCTTTTGGAGTGTT
TAAATCATCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTTATTTAGGTAGGAT
TAATTTTCAATATGAATATTTTAAAAACAAATATAGTCAGTTGAATTGCTGTGGAGG
TTTCTGTACGATTTACTCAAAGCTGGCTCTTTTCTGTACGCACTACCACGCCCCGGCTAA
TTTTTGCAATTTTTTGGTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAAC

15880 AAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTTGGAGTATTTAAATCATCTCT
GCAATAATCCTTTGATCCTGAAAAAATTTTGTGGCATGAGGGAAGAGAAGAATATTTCT
TTTGGAGTGTTTAAATCATCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTTAT
TTAGGTAGGATTAATTTTCAATATGAATATTTTAAAAACAAATATAGTCAGTTGAAT

FIGURE 3III

TGCTGTGGAGGTTTCTGTACGATTTACTCAAAGCTGGCTCTTTTTCTGTACGCACTACCA
[C,T]
GCCCCGCTAATTTTTGCATTTTTTGGTAGAGATGGGGGTTTCACCATGTTGGCCAGGCT
GGTCTTGAACCTCTGATCTCAAGTGATCCACCCACCTCAGCCTCTCAAGGTGCTGGGATT
ACAGGCATAAGCCACCATGCCAGCCTGCATTTATCCTTACATGATGGTGAAAAATAATG
TTTGTACTTCTTTCAGAATAATTTCAAGAAGGATCCCTGGAGTCAGCTAATGATTAGAGT
CAGGACTGTGCCTTAGTTGATGGCCCATATAGCACTACTGAACATGCCAGAGCTTTTGCT

16944 TTCAACTCTTACCAGCTCTATGAGCTTGAGCAGGTTACATACTCTTTTCAAGTCTTAGTG
CTTCACTTGTATTTGGGGCTAATAAGGATTATACGAAATAATGCAGGTTAAATGCCTAG
CACTTTGCTTTACATACTAAGGGTCCCAAGTGCTTTATTATTAGGTTTCTGAATGTTAT
ATATAAAGTTTCAGTGCTGCAAAAGGAATAGCACTCGAATATAACATTTTCTTTTAATT
CTCAGCAAGGCAACGTACTTCTATATAGAAGGGTGACCCTTACAGATAGAATAATGGTG
[G,A]
GCGCACACTTGGACAAGGGGAGGAGAAGGGGTTCTTATCCCCCACGCACGTGGCCCTGCT
CCTGTGTCGTTCCCCTATTGGCTAGGGTTAGACCACACAGGCTAACCTAATTCTGATTGG
CTAATTTAAAGAGAATGACGGGGTGAGGGCTTTGGCAGAGTCAGGGCAGAGCAGATAGCA
GGTAATCGGACTGAGTTAGGGTGGAGCAGGTGATCTGAATGAGTCAGGGTGGAGCAATCA
AAAAGGTTGCTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGTGGC

17061 TAGCACTTTGCTTTACATACTAAGGGTCCCAAGTGCTTTATTATTAGGTTTCTGAATGT
TATATATAAAGTTTCAGTGCTGCAAAAGGAATAGCACTCGAATATAACATTTTCTTTTA
ATTCTCAGCAAGGCAACGTACTTCTATATAGAAGGGTGACCCTTACAGATAGAATAATG
GTGGCGCACACTTGGACAAGGGGAGGAGAAGGGGTTCTTATCCCCCACGCACGTGGCCCC
TGCTCCTGTGTCGTTCCCCTATTGGCTAGGGTTAGACCACACAGGCTAACCTAATTCTGA
[C,T]
TGGCTAATTTAAAGAGAATGACGGGGTGAGGGCTTTGGCAGAGTCAGGGCAGAGCAGATA
GCAGGTAATCGGACTGAGTTAGGGTGGAGCAGGTGATCTGAATGAGTCAGGGTGGAGCAA
TCAAAAAGGTTGCTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCAGAGGTGGGCGGATCACGAGGTGAGG
AGATGCAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAA

17494 CTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGTGGCTCACGCCTG
TAATCCCAGCACTTTGGGAGGCAGAGGTGGGCGGATCACGAGGTGAGGAGATGCAGACCA
TCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCTGGGCGT
GGTGGCAGGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCGGGAGAATGGCATGAAC
CCAGGAGGCGGAGCTTGCACTGAGGCGAGATCCTGCCATTGCACGCCAGCCTGGGCGACA
[G,C]
AGACTCCACCTCAAAAACAAAACAAAAGTAGAAGGCAAAGAATTGAACATACTGACAT
ATTAAGTCTTTGAAAAGAAATTTAGAACTCATATCTAACAATCCCTCCCCTGTATTTCC
TTACAGTTTCTTTTCAAACCTTTTTTTTAAATATGCCTTGGCTTAGTAGTTTTGCTTCATT
TTCCAAAAGAAGAAGCTTCTCTGGATAAGGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAG
TGACATTTTTATGAGCCTCTGCATCTACTTACGGATGCACAGTATGACACAGCACCCGAC

17642 CTAATAAAAATACAAAAAAATTAGCTGGGCGTGGTGGCAGGCACCTGTAGTCCCAGCTAC
TCAGGAGGCTGAGGCGGGAGAATGGCATGAACCCAGGAGGCGGAGCTTGCACTGAGGCGA
GATCCTGCCATTGCACGCCAGCCTGGGCGACAGAGACTCCACCTCAAAAACAAAACAAAA
AAGTAGAAGGCAAAGAATTGAACATACTGACATATTAAGTCTTTGAAAAGAAATTTAGAA
CTCATATCTAACAATCCCTCCCCTTGATTTCTTACAGCTTTCTTTTCAAACCTTTTTTT
[T,A]
AATATGCCTTGGCTTAGTAGTTTTGCTTCATTTTCAAAAAGAAGAAGCTTCTCTGGATAA
GGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAGTGACATTTTATGAGCCTCTGCATCTAC
TTACGGATGCACAGTATGACACAGCACCCGACAAGAATAAGTCCACCTATTACGGCTGCG
AGGGAAGTAAGAATTGAGGCTATTATTCCTTCTCATTTACCAAACCTACTTTCTAGCCAT
CTTATAAAGGGGTCATTTACCCCTGAGTTGCTGGCTAACTTATTGGATAGAGCAGTCAGA

17737 GGAGGCGGAGCTTGCACTGAGGCGAGATCCTGCCATTGCACGCCAGCCTGGGCGACAGAG
ACTCCACCTCAAAAACAAAACAAAAGTAGAAGGCAAAGAATTGAACATACTGACATAT
TAAGTCTTTGAAAAGAAATTTAGAACTCATATCTAACAATCCCTCCCCTTGATTTCTT
ACAGCTTTCTTTTCAAACCTTTTTTTTAAATATGCCTTGGCTTAGTAGTTTTGCTTCATTT
CCAAAAGAAGAAGCTTCTCTGGATAAGGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAGTG
[A,C]

FIGURE 3JJJ

CATTTTTATGAGCCTCTGCATCTACTTACGGATGCACAGTATGACACAGCACCCGACAAG
AATAAGTCCACCTATTACGGCTGCGAGGGAAGTAAGAATTGAGGCTATTATTCCTTCTCA
TTTACCAAACCTACTTTCTAGCCATCTTATAAAGGGGTCAATTAACCCCTGAGTTGCTGGC
TAACTTATTGGATAGAGCAGTCAGACCATGCAGTGCCTTTCTAATACTTCCATTAGGGGC
AGTGTTGTTTGGGATGAAGGTGCAACATTGAGTTTAATTATGATGCAAACCTACCCCTCT

18068 GATGCACAGTATGACACAGCACCCGACAAGAATAAGTCCACCTATTACGGCTGCGAGGGA
AGTAAGAATTGAGGCTATTATTCCTTCTCATTTACCAAACCTACTTTCTAGCCATCTTAT
AAAGGGGTCAATTAACCCCTGAGTTGCTGGCTAACTTATTGGATAGAGCAGTCAGACCATG
CAGTGCCTTTCTAATACTTCCATTAGGGGCAGTGTTGTTTGGGATGAAGGTGCAACATTG
AGTTTAAATTATGATGCAAACCTACCCCTCTTTCTGCTACTATCATGTCTAAGGCTATTTT
[A, G]
TTTTGCCAAGCCATCTGGCTAGTAGCCCCCTAATTGCTCAGCTATTCCATTAAACAGCATCT
CTAGTGTAGTTAATAAATCACTGTTGGTTGTAGTAGCTGTAGTTTATCCAATCTACATTT
TTATTAATTGTCACTACCAAAAATATTGACTTAAATCCTGCGGCTATTTGATTTTGGGCT
TTAAATTGATCTGGTATTCCTCATGGGACCCTAATTGTGTCTAAATAGACGTGAGAGTTG
AAAGACCCATAAGGGGCTTCTCTCGCTTTACGATGTCTTATTTTTCTTCTCTGGTTGA

18339 TCTGCTACTATCATGTCTAAGGCTATTTTATTTTTGCCAAGCCATCTGGCTAGTAGCCCCCT
AATTGCTCAGCTATTCCATTAAACAGCATCTCTAGTGTAGTTAATAAATCACTGTTGGTTG
TAGTAGCTGTAGTTTATCCAATCTACATTTTATTAATTGTCACTACCAAAAATATTGAC
TTAAATCCTGCGGCTATTTGATTTTGGGCTTTAAATTGATCTGGTATTCCTCATGGGACC
CTAATTGTGTCTAAATAGACGTGAGAGTTGAAAGACCCATAAGGGGCTTCTCTCGCTTTA
[C, T]
GATGTCTTATTTTTCTTCTCTGGTTGATGAAATGCCAGGGTGAAAGGGATAGCCAATT
GGACTAAAGCACAAAGTGCCACTCCAGTTATTTGGCAGAGTGTCCAGTAAAGGTCCACCAC
AATACCACCACACATCCACACATCCGCTCGGGGATGAATAAGGGCTGACTGATTGATAAG
CTCTTGAAAATTCTTAAGCTCACTGCATCCCTTCAGGTCTCCAAGGAACGCTAAGTTTCC
TCCCTGTCAAGAGACACTAAGTGAAGTATTTTGGGAGACAGAAGCTGGATGGCCCTT

18361 CTATTTTATTTTGCCAAGCCATCTGGCTAGTAGCCCCCTAATTGCTCAGCTATTCCATTAA
CAGCATCTCTAGTGTAGTTAATAAATCACTGTTGGTTGTAGTAGCTGTAGTTTATCCAAT
CTACATTTTTTATTAATTGTCACTACCAAAAATATTGACTTAAATCCTGCGGCTATTTGAT
TTTGGGCTTTAAATTGATCTGGTATTCCTCATGGGACCCTAATTGTGTCTAAATAGAGCT
GAGAGTTGAAAGACCCATAAGGGGCTTCTCTCGCTTACGATGTCTTATTTTTCTTCTCT
[C, T]
TGGTTGATGAAATGCCAGGGTGAAAGGGATAGCCAATTGGACTAAAGCACAAAGTGCCACT
CCAGTTATTTGGCAGAGTGTCCAGTAAAGGTCCACCACAATACCACCACACATCCACACA
TCCGCTCGGGGATGAATAAGGGCTGACTGATTGATAAGCTCTTGAAAATTCTTAAGCTCA
CTGCATCCCTTCAGGTCTCCAAGGAACGCTAAGTTTCTCCCTGTCAAGAGACACTAA
GTGAACTAGTTTTGGGAGACAGAAGCTGGATGGCCCTTGGGGGCTGACCTGCAGGGTACC

19218 CTTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTTGGCTCACTGCAACCTCTGCTTCCC
AGGTTCAAGCAATTCTCCTGTCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCA
CCATGCCTGGCTAAGTTTGTATTTTGTAGAGACGGTGGTTTCTCCATGTTGGTCAGGC
TGGTCTTGAACCTCCAACCTCAGGTGATCCCCCTGCCTCGGCCTCCCAAAGTGCTGGGAT
TACAGGCGTGAGCCACCGAGCCTGACCTGTTTAAAGTCTTTAGTTTTTACAATAGCTATC
[A, G, T]
TGGTCTTGTTGTAGATGGAGGAGGAGCAACTGTTCCGTTGTGAGAGGTTTTGGAAGAAG
GCTTACAGGAAGGTGCAGGCGGTGGGGATCAAAGAAATGCATTTTAAATAATCTAATAGG
GTTTGTCCCTGAAACCTCAGCCCTATAGCATAAAAGTAAAGAAAGGGAACTGGCT
TAGAAAAGGGGAAGAAATTTGAGAGTTTGAAGATAATAACCTGTAGAGAATTATAGATAAT
AACCTGTATAGTTTTAGCTGACAGCTGGGGGGAGGGCTGTCTCTTTAGTAAATGAGTGT

19298 TCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCACCATGCCTGGCTAAGTTTGT
ATTTTTAGTAGAGACGGTGGTTTCTCCATGTTGGTCAGGCTGGTCTTGAACCTCCAACT
CAGGTGATCCCCCTGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCGAG
CCTGACCTGTTTTAAGTCTTTAGTTTTTACAATAGCTATCTTGGTCTTGTGTTAGATGG
AGGAGGAGCAACTGTTCCGTTGTGAGAGGTTTTGGAAGAAGGCTTACAGGAAGGTGCAGG
[C, A]
GGTGGGGATCAAAGAAATGCATTTTAAATAATCTAATAGGGTTTGTCCCTGAAACCTCAG
CCCCTATAGCATAAAAGTAAAGAAAGGGAAGTGGCTTAAAGAAAGGGGAAGAAATTT

FIGURE 3KKK

- GAGAGTTTGGAGATAATAACCTGTAGAGAATTATAGATAATAACCTGTATAGGTTTAGCTG
ACAGCTGGGGGGAGGGCTGTCTCTTTAGTAAAATGAGTGTATGGTTTTAGTAAATTACAA
AAACTGGTTGGGGCAATCCCTTCTTGCTATTTAGTGGTCCACAGAACATTGGACCAACTA
- 19629 ATCTAATAGGGTTTGTCCCTGAAACCTCAGCCCCTATAGCATAAAAACTGACTTAAAGAAG
GGAAGTGGCTTAGAAAAGGGGAAGAAATTTGAGAGTTTGGAGATAATAACCTGTAGAGAAT
TATAGATAATAACCTGTATAGGTTTAGCTGACAGCTGGGGGGAGGGCTGTCTCTTTAGTA
AAATGAGTGTATGGTTTTAGTAAATTACAAAACTGGTTGGGGCAATCCCTTCTTGCTAT
TTAGTGGTCCACAGAACATTGGACCAACTACAGCATAAAAGCTCTACGTCGGGGGCGGGG
[C, T]
GGGGGTAGGACTCTGGGTTGACATTGGGGTCTTTATTGAAATTTCCCCGGATTAAATGG
TCCCAATTCATAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTATTTTTCTGA
AATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGCAAGCATTAAAG
TGCAATAGTTTGGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGTCAGCAATAGA
GCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTTTCTTAGCTTT
- 19679 CTAAAGAAGGGAAGTGGCTTAGAAAAGGGGAAGAAATTTGAGAGTTTGGAGATAATAACC
TGAGAGAATTATAGATAATAACCTGTATAGGTTTAGCTGACAGCTGGGGGGAGGGCTGT
CTCTTTAGTAAAATGAGTGTATGGTTTTAGTAAATTACAAAACTGGTTGGGGCAATCCC
TTCTTGCTATTTAGTGGTCCACAGAACATTGGACCAACTACAGCATAAAAGCTCTACGTC
GGGGGCGGGGCGGGGGTAGGACTCTGGGTTGACATTGGGGTCTTTATTGAAATTTCCCC
[G, A]
GATTAAATGGTCCCAATTCATAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTA
TTTTTTCTGAAATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGC
AAGCATTAAAGTGAATAGTTTGGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGT
CAGCAATAGAGCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTT
TCTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGGGCTGTGGCCCACTCTGGAGGGGG
- 19981 ATTAATGGTCCCAATTCATAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTAT
TTTTCTGAAATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGCA
AGCATTAAAGTGAATAGTTTGGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGTC
AGCAATAGAGCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTT
CTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGGGCTGTGGCCCACTCTGGAGGGGGC
[A, G]
GCGCTTTCTTGACTCGGGTGTGATGAGTCCATCCCTTTTTCTACTGTAGAAACAGCAGTCT
TGGTGGTGAGCAGCACAAGGTAGGGTCTTCCCAGGCTGGCTCGAGTTTTCTTCTTTCC
ACCCTTTGATAAGAACGTGATCTTCAGGCTGGTGTGGTTTACCGGAAATCTAGGGGTG
GTACCTGTGCTAAAAGACTTTTAGTTTGGAGGAAAGGAAAAATGGAAGATAAACCAAGTA
TATAATTTCTAAGAAATGGACCTTTTGTTTTAAATGTGGGGACATCAGCAGTGGACTTTA
- 20014 GATGACAGTCAGGAGGCACAGAGGTATTTTTCTGAAATAGAGAGGTGTCTTTGACTTGG
CAAATCCCCACAGGGTATAACAAGGCAAGCATTAAAGTGAATAGTTTGGGCAAAATTGA
CTTGGTTATGTTAATAACTAGATGGTCAGCAATAGAGCCAGTAAAGAAGAAAGAGTAATA
GAATAGATAAAAGAGAGTTAAATTTTTCTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGG
GCTGTGGCCCACTCTGGAGGGGGCGGCGCTTTCTTGACTCGGGTGTGATGAGTCCAT
[C, T]
CCTTTTTCTACTGTAGAAACAGCAGTCTTGGTGGTGAGCAGCACAAGGTAGGGTCTTCCC
AGGCTGGCTCGAGTTTTCTTCTTTCCACCCTTTGATAAGAACGTGATCTTCAGGCTGGT
GTTGGTTTACCGGAAATCTAGGGGTGGTACCTGTGCTAAAAGACTTTTAGTTTTGAGGG
AAAGGAAAAATGGAAGATAAACCAAGTATATAATTTCTAAGAAATGGACCTTTTGTTTTAA
ATGTGGGGACATCAGCAGTGGACTTTATAGTCTTGGTGCCTTTTACTGAGAAATTTCC
- 20280 CGGCGCTTTCTTGACTCGGGTGTGATGAGTCCATCCCTTTTTCTACTGTAGAAACAGCAGT
CTTGGTGGTGAGCAGCACAAGGTAGGGTCTTCCCAGGCTGGCTCGAGTTTTCTTCTTT
CCACCCTTTGATAAGAACGTGATCTTCAGGCTGGTGTGGTTTACCGGAAATCTAGGGG
TGGTACCTGTGCTAAAAGACTTTTAGTTTTGAGGAAAGGAAAAATGGAAGATAAACCAAG
TATATAATTTCTAAGAAATGGACCTTTTGTTTTAAATGTGGGGACATCAGCAGTGGACTT
[C, T]
ATAGTCTTGGTGCCTTTTTACTGAGAAATTTCTTTAGCACCTATTTTTATTAGATTTT
AGACCAAGAAAGGCCAAACACCATTTTATATTTAACAGTGCTTCTGTATGATTCTTATA
CCAGATAAGCTAAGTTTACCTTTATATTAGCAAGTTGTTAACTTAAATTTTAAATAAAC
TTTGTAGACATATTTATCCAATTTTAAATGTCTGACCATAATGTATGATTCTTATAGACT

FIGURE 3LLL

CTTTTAAACCTTTTATAATTTTTGTAAAGAGCAGGTTAGTGCTTTAAGAAATACCTGTT

20612 TCCTTTAGCACCTATTTTTATTAGATTTTAGACCAAAGAAGGCCAAACACCATTTTTATAT
TTAACAGTGCTTCCTGTATGATTCTTATACCAGATAAGCTAAGTTTACCTTTATATTAG
CAAGTTGTTAACTTAATTTTTAATAAACTTTGTAGACATATTTATCCAATTTTTAATGT
CTGACCATAATGTATGATTCTTATAGACTCTTTTTAACCTTTTATAATTTTTGTAAAGA
GCAGTTAGTGCTTTAAGAAATACCTGTTGTGCTTTATTTTAATGTCCAGTTCACAGAA
[A, C]
AACTGTATGATACCCCTTAACTTTAGCCAATATGTTTACACACAGAATTTCTTTATAA
TTAACATTTCAAACTTGCTTAAACCTTTAAACAAAATATTTGTTTATTTTTAACTTT
TAATGTAGGTAAAAATCCACATTTCTTATGGCTCCTTATAATCCTTTTACCAAAGGCATAT
TTTACTTTCTTATACACCTTGCACATAAACTGTTTCTTCAATAGCTTTACATTCAGGAG
GCTTAATTACTTTTAAATTATACAACATTTCTTACATAAATTCCTTTTAAACTTTTTT

21966 GGTTCCTCTAAAAGTTACTTTTCTACTTCCTTCTGTTAGCAAAGCAGTTGCGGCTACAG
ATTGAATGTATTCAGGCCATCCGCGGGTTACTGGGTTAAGGATTTTTGATAGGAAGGCTA
CTGGTTGTCAAGTGGCCTCAGTGCTTTTCAAGCTATGCCCTTGTTTATACTTACAACAAGGT
GGTACTGGAGTGTATAGGGTCACCGAGAAGACCTTCGATTATCAGTTATAGGTTTTAAA
TTTACCCTGGCTTTTTTTTTTTTATTATTATACTTTAAGTCCTAGGGTACATGTGCACAA
[C, T]
GTGCAGGTTTGTACATATTTATACATGTGCCACGTTGGTGTGCTGCACCTATTAECTAA
GGAATAGGGTACACTGTTTTTTCTTTACTACTTCTATCTCTTTCTTTCCCTCTCTGACTT
TCTGTCTCTTTCTTTCTGACTCCCTCTTTGTAGCTCTGCCTCTCTTTCTCTCTGCTC
TCTCTCTCTGTCT
TCTCTCTCTGTCT

22017 CGGCTACAGATTGAATGTATTACAGCCATCCGCGGGTTACTGGGTTAAGGATTTTTGATA
GGAAGGCTACTGGTTGTCAAGTGGCCTCAGTGCTTTTCAAGCTATGCCCTTGTTTATACTTA
CAACAAGGTGGTACTGGAGTGTATAGGGTCACCGAGAAGACCTTCGATTATCAGTTATA
GGTTTTAAATTTACCCTGGCTTTTTTTTTTTTATTATTATACTTTAAGTCCTAGGGTACA
TGTGCACAACGTGCAGGTTTGTACATATTTATACATGTGCCACGTTGGTGTGCTGCACC
[T, C]
ATTAECTAAGGAATAGGGTACACTGTTTTTTCTTTACTACTTCTATCTCTTTCTTTCCCT
CTCTGACTTTCTGTCTCTTTCTTTCTGACTCCCTCTTTGTAGCTCTGCCTCTCTTTCTCT
CTCTCTGCCTCTCTCTCTCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
TCTTGTCT
CTCTCTCTTTCT

28009 AATTTGTCCTTTTTTACCCTTCCTTGGCAAATCACGCAATATTCCTTCTTAAAAATGGGT
AAAGTGCCAGCCGAACCTTAGAAGAGGGACTGATTCTATCTCTATTCTGACCAGGTATACG
GTAGACTGTAATTTAATGTGAGCACCCTTTCTGTTGCCATAATGAGGTATATTTATTTCTG
TTCAAAGATCATGCAGCCCTGACAAAGCAAATACCCTCTGACTCCCACTGTTAATTATCC
TTCAGTTGCTACAGGGTTTTTATCCATGTCCTCACTTAGGAGAGTTGGCGGTTGTGAAGC
[G, A]
GATGGAGTCCACAATCTCAGTGGCAGTTCTTAATGCTTTGAGCTCAAAGTGTGAGTAAGT
CGATGAGTGAGGCTTTTTAAGATGTAAATCCAATATCTGCAGAGAAATCTGAAGCTGTAAT
ATTAGAACAACATTCAAATGAGGACTTCATTGACTAGCTCATTAAGAAGTCTTTGATAA
TAGCATGTTGGTAAGACTTTTTCTTAGAAGGTACATATTATAAATGATGATGTGCTAAGAA
ATCAACATAAAGGAAAATAGAAAAATTTTCCCCAAATCCATCCTTTTTCTGTAGAAGTTT

28059 AAAAAATGGGTAAAGTGCCAGCCGAACCTTAGAAGAGGGACTGATTCTATCTCTATTCTGAC
CAGGTATACGGTAGACTGTAATTTAATGTGAGCACCCTTTCTGTTGCCATAATGAGGTATA
TTTATTTCTGTTCAAAGATCATGCAGCCCTGACAAAGCAAATACCCTCTGACTCCCACTG
TTAATTATCCTTCAGTTGCTACAGGGTTTTTATCCATGTCCTCACTTAGGAGAGTTGGCG
GTTGTGAAGCAGATGGAGTCCACAATCTCAGTGGCAGTTCTTAATGCTTTGAGCTCAAAG
[T, A]
GTGAGTAAGTCGATGAGTGAGGCTTTTTAAGATGTAAATCCAATATCTGCAGAGAAATCTG
AAGCTGTAATATTAGAACAACATTCAAATGAGGACTTCATTGACTAGCTCATTAAGAAGT
CCTTTGATAATAGCATGTTGGTAAGACTTTTTCTTAGAAGGTACATATTATAAATGATGAT
GTGCTAAGAAAATCAACATAAAGGAAAATAGAAAAATTTTCCCCAAATCCATCCTTTTTCT
GTAGAAGTTAATGATGATACCTCATTCTTTGTAAGTTAATTTTAAAAAGTTAATTATG

FIGURE 3MMM

28580 C C C A A T C C A T C T T T T T C T G T A G A A C T T T A A T G A T G A T A C C T C A T T C C T T T G T A A C T T A
A T T T T A A A A G T T A A T T A T G C A C C T A C T A T G A T A C G T C C A A A A T G T T T T A G G T G A T G T G
G A T A T A G C G A A G A A C A A G A C A C A C C C A G T G T C T T C C T T C A T G G A G T C T A T A T T C T T G G C A
C T G T T G G T C C T G T G T G A A G T C C T A A C A T T A T T T T G C T T A A T G T T T T G G C A A G A G A G G C A A
C A T T G G C T G G G C G T G A T G G C T A T A C C T G T A A T C C C A G C A C T T T G G G A G G C T G A G G T G G A
[T, C]
G G A T C A C C T G A G G T A G G G A G T T C A A G A C C A G C C T G A T A A C A T A G A G A A A C C C T G C C T C T C
C T A A A A A T A C A A A A T T A G C C A G G C A T G G T G G T G C G T G T C T G T A A T C C C A G C T A C T C T G G A
G G C T G A G G C A G G A A T C A C T T A A A C C T G G G A G G C A G A G G T T G T G G T G A G C C G A G A T T G T
G C C A T T G C A C T T G T A C T C C A G C C T G G G C A A C A A G A T T G A A A C T C C A T C T C A A A A A A A A A A
A A C C A A C A G G C A A C A T T C T G G G C T G A A C A A A G G T A A T T C A T C T G G T A A C A A T A G C A A T A

28595 T T T C T G T A G A A C T T T A A T G A T G A T A C C T C A T T C C T T T G T A A C T T A A T T T T A A A A A G T T A A
T T A T G C A C C T A C T A T G A T A C G T C C A A A A T G T T T T A G G T G A T G T G G A T A T A G C G A A G A A C
A A G A C A C A C C C A G T G T C T T C C T T C A T G G A G T C T A T A T T C T T G G C A C T G T T G G T C C T G T G T
G A A G T C C T A A C A T T A T T T T G C T T A A T G T T T T G G C A A G A G A G G C A A C A T T G G C T G G G C G T G
A T G G C T C A T A C C T G T A A T C C C A G C A C T T T G G G A G G C T G A G G T G G A T G G A T C A C C T G A G G T
[A, C]
G G G A G T T C A A G A C C A G C C T G A T A A C A T A G A G A A A C C C T G C C T C T C C T A A A A A T A C A A A A T
T A G C C A G G C A T G G T G G T G C G T G T C T G T A A T C C C A G C T A C T C T G G A G G C T G A G G C A G G A G A
A T C A C T T A A A C C T G G G A G G C A G A G G T T G T G G T G A G C C G A G A T T G T G C A T T G C A C T T G T A
C T C C A G C C T G G G C A A C A A G A T T G A A A C T C C A T C T C A A A A A A A A A A A C C A A C A G G C A A C A
T T C T G G G C T G A A C A A A G G T A A T T C A T C T G G T A A C A A T A G C A A T A A C A T A A A T A G C A G T A

28823 T G G C T G G G C G T G A T G G C T C A T A C C T G T A A T C C C A G C A C T T T G G G A G G C T G A G G T G G A T G G
A T C A C C T G A G G T A G G G A G T T C A A G A C C A G C C T G A T A A C A T A G A G A A A C C C T G C C T C T C C T
A A A A A T A C A A A A T T A G C C A G G C A T G G T G G T G C G T G T C T G T A A T C C C A G C T A C T C T G G A G G
C T G A G G C A G G A A T C A C T T A A A C C T G G G A G G C A G A G G T T G T G G T G A G C C G A G A T T G T G C
C A T T G C A C T T G T A C T C C A G C C T G G G C A A C A A G A T T G A A A C T C C A T C T C A A A A A A A A A A A
[-, A, C]
C A A C A G G C A A C A T T C T G G G C T G A A C A A A G G T A A T T C A T C T G G T A A C A A T A G C A A T A A C A
T A A A T A G C A G T A A T A A T T A T A C A T T A T T G A G T T C C T A T T C T C T G C C A A A A A T G G T T G A T A
A G C A C C T T T G A T A T G G C T T A T T T T A C C T A G T C C T C A T T A T A A C C T T A G A A G G T A T A T T G T
A T C T G G T C A A A A T T G A A G A A G A A A T T G A A A C T C A C A G A G G G T A A A T A A T T A A A G T T C A T
A G C T A G T A A G T A G T A C A G A C A A A C C C A A A A G C A G A G T T T C A T G C T C A T A G T C A C C A T A A T

28827 T G G G C G T G A T G G C T C A T A C C T G T A A T C C C A G C A C T T T G G G A G G C T G A G G T G G A T G G A T C A
C C T G A G G T A G G G A G T T C A A G A C C A G C C T G A T A A C A T A G A G A A A C C C T G C C T C T C C T A A A A
A T A C A A A A T T A G C C A G G C A T G G T G G T G C G T G T C T G T A A T C C C A G C T A C T C T G G A G G C T G A
G G C A G G A G A A T C A C T T A A A C C T G G G A G G C A G A G G T T G T G G T G A G C C G A G A T T G C C A T T
G C A C T T G T A C T C C A G C C T G G G C A A C A A G A T T G A A A C T C C A T C T C A A A A A A A A A A A C C A A
[C, G]
A G G C A A C A T T C T G G G C T G A A C A A A G G T A A T T C A T C T G G T A A C A A T A G C A A T A A C A T A A A
T A G C A G T A A T A A T T A T A C A T T A T T G A G T T C C T A T T C T C T G C C A A A A A T G G T T G A T A A G C A
C C T T T G A T A T G G C T T A T T T T A C C T A G T C C T C A T T A T A A C C T T A G A A G G T A T A T T G T A T C T
G G T C A A A A T T G A A G A A G A A A T T G A A A C T C A C A G A G G G T A A A T A A T T A A A G T T C A T A G C T
A G T A A G T A G T A C A G A C A A A C C C A A A A G C A G A G T T T C A T G C T C A T A G T C A C C A T A A T G T A T

28842 A T A C C T G T A A T C C C A G C A C T T T G G G A G G C T G A G G T G G A T G G A T C A C C T G A G G T A G G G A G T
T C A A G A C C A G C C T G A T A A C A T A G A G A A A C C C T G C C T C T C C T A A A A A T A C A A A T T A G C C A
G G C A T G G T G G T G C G T G T C T G T A A T C C C A G C T A C T C T G G A G G C T G A G G C A G G A G A A T C A C T
T A A A C C T G G G A G G C A G A G G T T G T G G T G A G C C G A G A T T G T G C C A T T G C A C T T G T A C T C C A G
C C T G G G C A A C A A G A T T G A A A C T C C A T C T C A A A A A A A A A A A C C A A C A G G C A A C A T T C T G G
[G, T]
C T G A A A C A A A G G T A A T T C A T C T G G T A A C A A T A G C A A T A A C A T A A A T A G C A G T A A T A A T T A
T A C A T T A T T G A G T T C C T A T T C T C T G C C A A A A A T G G T T G A T A A G C A C C T T T G A T A T G G C T T
A T T T T A C C T A G T C C T C A T T A T A A C C T T A G A A G G T A T A T T G T A T C T G G T C A A A A T T G A A A G
A A G A A T T G A A A C T C A C A G A G G G T A A A T A A T T A A A G T T C A T A G C T A G T A A G T A G T A C A G A
C A A A C C C A A A A G C A G A G T T T C A T G C T C A T A G T C A C C A T A A T G T A T T C A G A A A C T T T T A G G

30128 G G C C A A T G A A T C T G A A T T T A A A A C A T G T A T T T G T G T G A T T T T G A T G G G T G G A C A C A C T T
G A G A A T C A C G T C A G G A C C A T T T A T G T G G C T C T A A T T A C A T A T A C A C T A C T T T A T A T T G C

FIGURE 3NNN

AGTTGTTTATTTATGTTATATTGCAGTTATTTATTTATGTTTCATCTCTTTTCTGAGAA
ATTACCTTCTGATAATCCAATGCAGAGATAAATTAAGAAAAATCTGTAGGAAAGAATAGA
TCATCAAGTCCCTTGCAACATTCTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGC
[T,A]
GGATTTCCCTGGACTAGGTTGTCTTTTCTGCTACTTTCTCCATTACAGGTCTCCCTAC
GGCAGCACTGCTTATATCACTTGGAACCTGAATCTATTTTGGTAAAAAAAAGTTAAAAA
TTAAATTATCAGAAGGATATTGGGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTG
TTATAGAGCCAGGCACATTAATGCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTT
ATTCCAAATGTCAGCTTTATCCTGTTGGATGTGCTGATCTTTTTTCTCTACATTAGCCA

30150 AACATGTATTTGTGTGATTTTATGTTGGTGGACACACTTGAGAATCACGTCAGGACCATT
ATGTGGCTCTCAATTACATATACACTACTTTATATTGCAGTTGTTTATTTATGTTATATT
GCAGTTATTTATTTATGTTTCATCTCTTTTCTGAGAAATTACCTTCTGATAATCCAAT
GCAGAGATAAATTAAGAAAAATCTGTAGGAAAGAATAGATCATCAAGTCCCTTGCAACATT
CTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGCTGGATTTCCCTGGACTAGGTTG
[T,G]
CTTTTCTGCTACTTTCTCCATTACAGGTCTCCCTACGGCAGCACTGCTTATATCACTT
GGAACCTTGAATCTATTTTGGTAAAAAAAAGTTAAAAATTAAATTATCAGAAGGATATTG
GGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTGTTATAGAGCCAGGCACATTAAT
GCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTTATTCCAAATGTCAGCTTTATCC
TGTTGGATGTGCTGATCTTTTTTCTCTACATTAGCCAGTTCATTCTCATGTTCTGGAA

30188 GAGAATCACGTCAGGACCATTATGTGGCTCTCAATTACATATACACTACTTTATATTGC
AGTTGTTTATTTATGTTATATTGCAGTTATTTATTTATGTTTCATCTCTTTTCTGAGAA
ATTACCTTCTGATAATCCAATGCAGAGATAAATTAAGAAAAATCTGTAGGAAAGAATAGA
TCATCAAGTCCCTTGCAACATTCTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGC
TGGATTTCCCTGGACTAGGTTGTCTTTTCTGCTACTTTCTCCATTACAGGTCTCCCTA
[C,T]
GGCAGCACTGCTTATATCACTTGGAACCTGAATCTATTTTGGTAAAAAAAAGTTAAAAA
TTAAATTATCAGAAGGATATTGGGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTG
TTATAGAGCCAGGCACATTAATGCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTT
ATTCCAAATGTCAGCTTTATCCTGTTGGATGTGCTGATCTTTTTTCTCTACATTAGCCA
GTTCCATTCTCATGTTCTGGAAGCTTGTGACAGAGGGGGAATATGCATTTCAAGATCAGA

30453 TTTCTGCTACTTTCTCCATTACAGGTCTCCCTACGGCAGCACTGCTTATATCACTTGG
AACTTGAACTATTTTGGTAAAAAAAAGTTAAAAATTAAATTATCAGAAGGATATTGGG
GATGCCTGCAGAGTAATCAAAATAGGATCTATATTGTTATAGAGCCAGGCACATTAATGC
CATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTTATTCCAAATGTCAGCTTTATCCTG
TTGGATGTGCTGATCTTTTTTCTCTACATTAGCCAGTTCATTCTCATGTTCTGGAAGC
[T,C]
TGTGACAGAGGGGGAATATGCATTTCAAGATCAGAAGATCCAGAGTGAAAATGATTGGAA
TGGCCTGAGTCACAGTTCCAATCCTAGAACAAGGCATCTTGCTAGGGATGTGAGAGATGA
TAAGTGACAGATACAGTGACAGCAAGTGGTTGATGGGATCTGAGTTGTGAGAGAGGGTCT
GTGAAAAATGAAAGACCTGCATAAGAAGAGGAGAAGCAGAAATATGAACATTGTTGTGAG
TCAGGTCTTTACCAACTCTGTGCTGCTTATTCTACTTTTTTGTGCAAGATTGATTATGT

34990 GGTACACAGCTGGTGTCTCTGCTGCTGTTTCAGTAGAAAGTTTACATAAACAGCAAGG
TGTGCTGTTCTCAATAGACTCACTTATGTTTCATGATTTGGTACTTGCTCAAGCTGGAATC
AATTTTATAGAAAAATAAAATCTTTTGCAAAGATTTTACCTCAAAAAATAGAAAAAAGG
GCATTCTGCCTTACCTTCTACAAGGTCTTCTCTGAAATTCCAAGCATCAGGGTGTTAT
AACAGACTCTAAAAAGGGTTTCTTTTTTCTTTTCTTTAACATTGCTTATTGCACAGCAT
[A,G]
TTGAGACAGAGAAGATGGTAAGTGAAATAAAACAAAGGAAATAAAAAGTATCATCACTGG
GTTTCAGAATCAGCATGGTTTATGCTAAGGGAAAGACTTGGAACCTTGATTCAACATAT
AATTCTAAAAAGAGACAGGAAGAAATCCCACCTTGTTTCTCTGATTCTACCTTTGGGAT
GGGTAGGTATGTTATACAATAAGAATAACATTGAGATGACTGCTATAAAAAATAGTGGTTA
AGAGCCTGGGTCCAGAATGAGAAAGGTGGATATTGAATTTACCTGAGTGCAACTAGGCAG

35203 CTGAAATCCAAGCATCAGGGTGTATAACAGACTCTAAAAAGGGTTTCTTTTTTCTTT
CCTTTAACATTGCTTATTGCACAGCATATTGAGACAGAGAAGATGGTAAGTGAAATAAAA
CAAAGGAAATAAAAAGTATCATCACTGGGTTTTCAGAATCAGCATGGTTTATGCTAAGGGA
AAGACTTGGAACCTTGATTCAACATATAATTCTAAAAAGAGACAGGAAGAAATCCCACC

FIGURE 3000

TTGTTTCCTCTGATTCTACCTTTGGGATGGGTAGGTATGTTATACAATAAGAATAACATT
[G,A]
AGATGACTGCTATAAAAAATAGTGGTTAAGAGCCTGGGTCCAGAATGAGAAAGGTGGATAT
TGAATTTACCTGAGTGCAACTAGGCAGACTCAAGTGAGTTGATTTTACCCACTCCTCCAC
TCAAATACTGGGTATGGCTTTGCAAAAAACATTCAACCAGTTATCCACATAGTTGGTCTTA
ACTTTCCATGTGACTATAATGAATATAAACTTGCTAATGAGCAGAGTGTGATTTTAGTGT
TTAAACTATTTTTTCCCGAATAATAGTTCCTAGATGCAGTTAATGAGCCTTATTGGGTAC

36206 TCCAAGTAATTATCACAACATTAAGGTGCATTAGCTTTGTGTGTTAACGTGGTATACCT
CCAGGCAACTTTTAGGATACTGTACAGATACAATGGCTGTGAAGGCTGGGATGAAAAGAC
CTGTGCGAAGCAGGACTGAGGCACTTAAGGAAGGCCTCAGAGTTACATCTCCTTTGCCTG
TTTTCTTGAGGCCACATACCCTAGCCAGCCCTGTGAGCATGAGTGAGAACAGGCTCT
GCCTTTGCCACACTAAACCACTACCTCAAGGCCCCACAAAGACCCAGTGTCTCCAGAC
[G,A]
GTCTTTCTGTCTTCTTAACACTCAGAGCTCCATGAACCAGAATGAAAGTTTTGGAACATG
ATCCAAGTAAAAGACTCAAGAAGTAAACACCACTAAGGTTAACTTTGCTTTAGAGGTTAG
AGAAAACTGCAAGGACACCACACAGAGACTATGAAAACCCCAATGTATTGAAATGA
TGCTGATTCCATTTACCTCCATATTGCCTGATAATACCCAGGTGCTACCATGGCAGCTTA
AGGTGGTATTTGCTGGGAGCTATGATACTCTTTAAGAAGTAATAGCACTACTAGTAAAAG

39692 AAAATTGAAATTACTTAGATACAAAAGAGTGGTTGTAGTAAGAAAATAGGCAAGGAGAAC
ATTTTAAAGTGCTGATCCTCGGTAAAGCCATACATAGGATGCACCTGGGAGCAGATCTTT
CTGAAGTCATTCTGTGCTCAGAGATGTTTCTCCTTACCTTGCTGCCTATGTCAAATTCTC
TGTGATATGTTCTTAGAGCCCCATGACCTCTCTTCTTAAGTGCAGTGGGAGCTTGAATT
TTCCATTTATTTTTGTGACCATTAGTCTATAAGAGTCTCCGTCTTACAGGGCCCTCAC
[C,T]
TGACTACAGACTCCATAAAGGCAGAGATTCTATTTTTACTCTATTATTACTGTATTCCCA
GCACTAAGCACTAGGATTAATACATAGTAAGTGTTCAACAGATGTTTACTGGATGATTAG
ATTGGCATTTTAAGGTAGTCTGAGATCACGTTTTAGACAAGATACTTCAGTTTAGTCCAA
TCTTTATTATTATTAGCTACTAAAGAGAAATTGATAATTACTCATGATATTCTTCTTTT
TTGTTTTACAGTCACTTTGACCACTTTGAAATTTTGCAGCCATTGGGAAAGGCAGTTT

40095 TGTTTACTGGATGATTAGATTGGCATTTTAAGGTAGTCTGAGATCACGTTTTAGACAAGA
TACTTCAGTTTAGTCCAATCTTTATTATTATTAGCTACTAAAGAGAAATTGATAATTAC
TCATGATATTCTTCTTTTTTGTTTTACAGTCACTTTGACCACTTTGAAATTTTGCAGC
CATTTGGGAAAGGCAGTTTTTGGGAAGGTGAGAACAAATTGAAATGATTAACCACCAGCAGG
GTTATGTAGCCAGGGAACAGAGGGTCCAGAAATGTTACATTATTGAGTTGCTGGGACC
[A,G]
CAAGGAAAGATAATTAAGTGAAAATGTTTTTGAATGGATTTTTATAAAATTGTCAACAC
AGTTTAAAGAAAAGCGTGTGACAGGCAGCTACATAATGAACATATACTGTTGTGAGAATAA
TCTCATTAACTCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTTCTCTCTACCCTA
AAGGAGATGAAGATTTGAGAAATCATTTCAGATTCTACCAGCTGTATGCCAGTAATAGT
TATCTTGTATGGAAGAGTTACTTATTTTCTGTGGGAAAGAGTCATCCGATTTCTAT

40191 TACTAAAGAGAAATTGATAATTACTCATGATATTCTTCTTTTTTGTTTTACAGTCACTT
TGACCACTTTGAAATTTTGCAGGCCATTGGGAAAGGCAGTTTTTGGGAAGGTGAGAACAAA
TTGAAATGATTAACCACCAGCAGGTTATGTAGCCAGGGAACAGAGGGTCCAGAAATGT
TCACATTATTGAGTTGCTGGGACCACAAGGAAAGATAATTAAGTGAAAATGTTTTGTAA
TGGATTTTTATAAAATTGTCAACACAGTTTAAGAAAAGCGTGTGACAGGCAGCTACATAA
[T,C]
GAACATATACTGTTGTGAGAATAATCTCATTAACTCAAATCTGTTTACTCTCAGTAAAC
TTTAAGGCTTTTCTCTCTACCCTAAAGGAGATGAAGATTTGAGAATCATTTCAGATTCT
ACCAGCTGTATGCCAGTAATAGTTATCTGTTTATGGAAGAGTTACTTATTTTCTATGTG
GGAAAGAGTCATCCGATTTCTATTTGTTTCTCATTTGTCTAATGTTTTATCTTAAGA
AAAATACATATTCAGTTAATTTTTTTTGAAGAACTTCTGTATTCAAACCTGATTAC

40287 CAGTTTTTGGGAAGGTGAGAACAAATTGAAATGATTAACCACCAGCAGGGTTATGTAGCCC
AGGGAACAGAGGGTCCAGAAATGTTACATTATTGAGTTGCTGGGACCACAAGGAAAGAT
AATTAAGTGAAAATGTTTTTGAATGGATTTTTATAAAATTGTCAACACAGTTTAAGAAA
AGCGTGTGACAGGCAGCTACATAATGAACATATACTGTTGTGAGAATAATCTCATTAAAC
TCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTTCTCTCTACCCTAAAGGAGATGAA
[G,A]

FIGURE 3PPP

- ATTTTCAGAATCATTTTTCAGATTCTACCAGCTGTATGCCAGTAATAGTTATCTTGTAT
GGAAGAGTTACTTATTTTCATGTGGGAAAGAAGTCATCCGATTTCTATTTGTTTCCTCAT
TTGTCTAATGTTTTATCTTAAGAAAAATACATATTCAAGTTAATTTTTTTGCAAGAAA
CTTCTGTATTCAAACCCCTGATTACTAGTTTCTCAATGGAGACGTACTTTAAGAGAATAAT
ATTTTCATATAAAACTTGCATTTTAAATCATTTTCTGTTTACTTTTTTCAGGCATTATACA
- 40384 TTGCTGGGACCACAAGGAAAGATAATTAAGTGAAAATGTTTTTGTAAATGGATTTTTATAA
AATTGTCACCACAGTTTAAGAAAAGCGTGTGACAGGCAGCTACATAATGAACATATACTG
TTGTCAGAATAATCTCATTAAACTCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTT
CTCTCTACCCTAAAGGAGATGAAGATTTTCAAGATCATTTTCAGATTCTACCAGCTGTATG
CCAGTAATAGTTATCTTGTATTGGAAGAGTTACTTATTTTCATGTGGGAAAGAAGTCA
[T, C]
CCGATTTCTATTTGTTTCCTCATTTGTCTAATGTTTTATCTTAAGAAAAATACATATTC
AGTTTAATTTTTTTGCAAGAACTTCTGTATTCAAACCCCTGATTACTAGTTTCTCAATG
GAGACGTACTTTAAGAGAATAATATTTTCATATAAACTTGCATTTTAAAAATCATTTTCTG
TTTACTTTTTTCAGGCATTATACAGACCTCTAAAGAAATTTCAAAAACATGGACATCATAT
TTAGTGTTTTTCCAGTCCTTAAAGTCCTTTTTGGTTATATCATGTATGGGTTGTAACAG
- 40510 GAATAATCTCATTAAACTCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTTCTCTCT
ACCCTAAAGGAGATGAAGATTTTCAAGATCATTTTCAGATTCTACCAGCTGTATGCCAGT
AATAGTTATCTTGTATGGAAGAGTTACTTATTTTCATGTGGGAAAGAAGTCATCCGAT
TTCTATTTGTTTCCTCATTTGTCTAATGTTTTATCTTAAGAAAAATACATATTCAAGTTT
AATTTTTTTTGAAGAACTTCTGTATTCAAACCCCTGATTACTAGTTTCTCAATGGAGAC
[G, A]
TACTTTAAGAGAATAATATTTTCATATAAACTTGCATTTTAAAAATCATTTTCTGTTTACT
TTTTTCAGGCATTATACAGACCTCTAAAGAAATTTCAAAAACATGGACATCATATTTAGTG
TTTTTCCAGTCCTTAAAGTCCTTTTTGGTTATATCATGTATGGGTTGTAACAGAAATTC
TTTGACAGTATTATTCAGCTTGACAGTTCAAGTCTATTTCAAGTCACTCAAAGCAG
GATTAAGGATGTTACTTGTTATTGGAATATTCTGACATGGAGGCAGCTATTTTCACCAA
- 41664 GAAAACAGTGAAAGTACAGAGATTTATTGCAAAGTGAAAAGTACACACTCAAGAGAGGG
GAGCATGGGTGAACTCCAGCGAATGTATGTAAGGGGGGGTTTGGGCTGCTGCCATAAT
GGGTTTCTTTAACCAAGGGGTGAAACATTCATGATGATTCTGAAAAAAGATGGAGATTT
CTTGGAACGTGGTGCCAGCTATTTTACACCAAATATGAATGTTCTGGAACGTGTCATG
GTGCTGGTGGGTGTATGATTAGTATGTTAATGAGTGTATGATGAGGTCTAGGTGAAAC
[C, T]
TAGGTCAAATCCAGCACAAATGGAGAGGACCCACAGACTCTCTGAAGGAAACGACTGCTCC
TGCAGGACCCAGGCAACTCCCCAAAACCTGTGAGTACCCCAACTGTGGAGGTGGGAAAGA
GAGACCCCTCTCTCCCAAACACACCCCCACTGGAGAAAGCTGAAGGTCTGTTTGCTGGA
GAAGTTTCTGACTTTACCTGGAGCTGAGTGGACTTGAAGAGCCCAGTGAAATACACGGGG
AGAAGAAGCAGCAGAAAGGCCCTGGGAGCTTGCTGGGTCCACAAGCAGGCCATTCTGCC
- 48324 CACTGATATGTGGAAGCTAAGCTATGAGGATGCAAAGCAATGAGAATGATACAATGGACT
TTGGAGACTTAGGGGGAAGAGTGGGAGGGGGCGAGGGATACAAGACTACAAATGTGGTG
TAGTGATACTGCTCAGGTGATGGGTGCAACAAAATCTCACAATCACCCTAAAGAACTT
ACCCATGTAACCAAACACCTTTACCCCAATAACTTATGAAAAAATAATCCAGCACCAC
ATTAGGTTTATGTCGACTTAGCCAGCTTGCTTACACCCTGGTTTTTCAGGTTCTTATCA
[T, G]
TCCCAGTTTATGCAGCTGTTTCAACATTTTCTTTTGTCTAGTCATGTGAACTGCTGTCT
GGAATTTTCTTTTCTCTGCTACCACCTTTATTATTCTGTCTCACTTTTCATCTTCATC
CCTACTGTTACATAAATGCATCTTGATTTCTAGGCAAGCATTTGTCAAATTTCTATTAGG
ATCTTCTCAGGGTCTTTTGTCTCCTTAGTTTCTTTGGCTTTATAGTGAAAGAACATTT
TTCTTTTATTGCTACTAACAAATACTTCTTGGTCAGTTGTACAGTTCCTTGTCTTCTG
- 48423 TACAAGACTACAAATGTGGTGAGTGTATACTGCTCAGGTGATGGGTGCAACAAAATCTC
ACAATCACCCTAAAGAACTTACCCATGTAACCAAACACCTTTACCCCAATAACTTAT
GGAAAAATAATCCAGCACCACATTAGGTTTAGTCGACTTAGCCAGCTTGGCTTACACCC
TGGTTTTTCAGGTTCTTATCATTTCCAGTTTATGCAGCTGTTTCAACATTTTCTTTTGC
TAGTCATGTGAACTGCTGTCTGGAATTTCTTTTCTCTGCTACCACCTTTATTATTC
[C, T]
TGTCTCACTTTTCATCTTCATCCCTACTGTTACATAAATGCATCTTGATTTCTAGGCAAGC
ATTTGTCAAATTTCTATTAGGATCTTCTCAGGGTCTTTTGTCTCCTTAGTTTCTTTGG

FIGURE 3QQQ

CTTTATAGTGAAAGAACATTTTTCTTTTATTGTCCTAACAATACTTCTTGGTCAGTTG
TCACAGTTCCCTTGTCTTGAGGTCAATATATATATATTTTTAAACATTGTAATTTAAAT
ATGCTGACTGGGAAGGAGTTCAGATGTCTTACTAGTTATTAGATACTTTCTTTCCCCATG

50015 GCCTTAGCATTTTACCTTCTCATATTTGTCTTTCATCGCTGTGTGGGCAAAGTTGATTTT
ATTCTGTTCTTTTTTAAAGAAAATGGGTATTGTGAGGCTTTAAGCTGGCCAAAGATGAT
AGATTTTGCTGTTTGCTAATTTGGTGTCAATCCAGACAACATTCTGTTCTCCATGCATAC
TGACCTGGTGATAACATGACATATAACCTATTCTTTCTTCTCACTTCTCACATTGAACC
TCACAGTGAACACTAGGCATCATTAACAATGATAGAAGAAAGAGAGGAGACTTACCTCC
[A,C]
CCCAGTGATTCTGGTACTACATTCAAACTAGAACTAACTGGGAGGGGGAATTCTTAAA
GTACAACAGCAACTCCCTTTGTCTTCCAACCATGAGAAAAATCTTCACAAATCTGTATC
ATTCTTCTAATAAATGCTTTTTGTTTTAGTAAGTACAATATATTCAATGTAAGTTTATC
TTTCCACATTTATAAACCATCTTGCAAGTCTTTTGAAGGTGTGATTGTGAGTGTATTAGT
CAGTTCTCACATTGCTATAAAGAAATACCTGAGACTGGGTAAATTTTTAAAGAAAAGAAGT

50095 AAAATGGGTATTGTGAGGCTTTAAGCTGGCCAAAGATGATAGATTTTGCTGTTTGCTAAT
TTGGTGTCAATCCAGACAACATTCTGTTCTCCATGCATACTGACCTGGTGATAACATGAC
ATATAACCTATTCTTTCTTCTCACTTCTCACATTGAACCTCACAGTGAACACTAGGCA
TCATTAACAATGATAGAAGAAAGAGAGGAGACTTACCTCCACCCAGTGATTCTGGTACTA
CATTCAAACTAGAACTAACTGGGAGGGGGAATTCTTAAAGTACAACAGCAACTCCCTT
[T,G]
GTCTTCCAACCATGAGAAAAATCTTCACAAATCTGTATCATTCTTCTAATAAATGCTT
TTTGTTTTAGTAAGTACAATATATTCAATGTAAGTTTATCTTTCCACATTTATAAACCAT
CTTGCAAGTCTTTTGAAGGTGTGATTGTGAGTGTATTAGTCAGTTCTCACATTGCTATAA
AGAAATACCTGAGACTGGGTAAATTTTTAAAGAAAAGAAGTTTAAAGTGGCTCATGGTTCTG
CAGGCTGTGCAGGAAGCATAGTGGCTTCTGCTTTGGGAGGACTCAGGAAGCTTCCAATC

52300 GTATGAAGAACTGTGTGTGTGGTGTGTGGGTATGTATGTGTTGGGGTTTTCAGAGAAAGAA
GGTAAGTAGTCTGGGGGCAGGGACGTTAAGGAGGAAAGAACATTTGGAAATAAAATTCAA
CCTGACTTGCCTCCAGGGACCTGGCTACACTCAGGAACAGTCTTCAAATGTAGGCCATGT
TATCAAGTGAATGCTGCCAGACAGGGCTGGCATCCAGGAAAAGTAAATAAAATCTTCTTG
TGCGTCTGTCTCTGAGGGCTCTTCACAAAGCCCTGGCAACCCACAGCCTGAAAACAAATA
[A,G]
GCCCCAGTCTTTCCAGCATAGTTGATTCCCCAGGTGGCTTTTGTTAATTGAGATTAAAC
CTGTAGCTGCACACAACCTCCTCAGGGCCTCTATCTTTACTCATGTCTTTGTCCCTGTG
GATAGAAGGGGTCCACATGTGGTTTCAGGAAATAGGACACCAGATCATCTGTTTTAACT
GGAAAGAACTACCTGTACTGAGAGTGTGACAAAGTCTTTTCAGACTCTGAACATAGCCCA
ATAAATGGTATCAACCTTAAATAACGAGATTCTGAAAAATATGATTAAGTATCGAGTTTGC

52623 TTGATTCCCCAGGTGGCTTTTTGTTAATTGAGATTAAACCTGTAGCTGCACACAACCTCTC
AGGGCCTCTATCTCTTTACTCATGTCTTTGTCCCTGTGGATAGAAGGGGTCCACATGTGG
TTTCAGGAAATTAGGACACCAGATCATCTGTTTTAACTGGAAAGAACTACCTGTACTGAG
AGTGTGACAAGGTCTTTTCAGACTCTGAACATAGCCCAATAAATGGTATCAACCTTAAAT
AACGAGATTCTGAAAATATGATTAAGTATCGAGTTTGCTGGAGCCAGAGCTTGAGGATG
[C,G]
CCACCTGGGAGCACAGATTCACTTTGCCAGAATGTACACTCCAATTAGCAGCAGTTATA
AGTGGGGTTTTAAGAAAAAAGACAAGGCAGTTTCTAAGTTATTTACCAAAAAATTTACAT
TAAATAATGTAAGCTATTGATGGACTATGCATTATTCTTTATATCACAAATTTACAGGAA
CACAAAGATAATGGGTGAGGCAGCTAGTCAGGAACAAAATGGCTTTAAATACTGTCTT
GAGCATGGGTTTGAGGCTGTGACTGACATCCCATCTCATGTTTCTCTAAACCTAATAAAA

52773 TTTTAACTGGAAAGAACTACCTGTACTGAGAGTGTGACAAGGTCCTTTTCAGACTCTGAAC
ATAGCCCAATAAATGGTATCAACCTTAAATAACGAGATTCTGAAAATATGATTAAGTATC
GAGTTTGCTGGAGCCAGAGCTTGAGGATGCCACCTGGGAGCACAGATTCACTTTGCCC
AGAATGTACACTCCAATTAGCAGCAGTTATAAGTGGGGTTTTAAGAAAAAAGACAAGGC
AGTTCCTAAGTTATTTACCAAAAAATTTACATTAATAAATGTAAGCTATTGATGGACTAT
[G,A]
CATTATTCTTTATATCACAAATTACAGGAACACAAAGATAATGGGTGAGGCAGCTAGTCA
GGAACAAAATGGCTTTAAATACTGTCTTGTGAGCATGGGTTTGAGGCTGTGACTGACATC
CCATACTCATGTTTCTCTAAACCTAATAAATTGTGCATATCTCATATAGCTCAGACTGCT
CTGAGCTATTTTTGTTTTCTCATTTCCCCCTTTTCATCAAGATTTTGCAAAGAAAGCAT

FIGURE 3RRR

TGTGGATGAACTTAAGCAGTTTTTGGCTCCTTTTATGTTTCAGGAAGTTAGTCCTGCATTGC

53140 AAATGGCTTTAAAATACTGTCCTTGAGCATGGGTTTGAGGCTGTGACTGACATCCCATAC
TCATGTTTTCTCTAAACCTAATAAATTGTGCATATCTCATATAGCTCAGACTGCTCTGAGC
TATTTTTGTTTTCTCATTTCCCCCTTTTCATCAAGATTTTGCAAAGAAAGCATTGTGGA
TGAACCTAAGCAGTTTTTGGCTCCTTTTATGTTTCAGGAAGTTAGTCCTGCATTGCTAGGAA
GTCTTATTTCCAGATGGTCCTGTCCCACATTTGGGGGAAGGGGAAAGGATGAGTCTTAGT
[G,A]
GGGATTTTAAACCCATCAGAAGCAAAATTGGGATGGCATCGCAGGGTGCCACAAATGAGA
CCTCACCAAGTCACTAATTTATGTAGCTACTGTTGCTTGTGGGATCATCTCCAGGCTTC
AGAATACCATGCAGTTAGTTTTCTCGGAATAAGTAAAAACAATGAGCTATACATAGTAGAA
ATATAATACATAACAATTACAATTAATAAAAAAAAAAAGAAATTTCTATGCCTGAATGAAA
AAAAATCTATTCCATTGAAAGTCAACTAAAAACATCATGAAGAAAAATTAATCCAGT

53848 GTGTGCTATAATTTTCTTCTGAACCATAATTTCTCTCTTTCAGTTCAGTATTTCTACCC
AAGATAAATGTTATCAGGACCAACATACTTGTAATAAAGCTTTAGTATTATATTATTTGGCC
TAATTATTTGCATTAAGTGCAACAAAAAATGAATGGCCATGTACGCATTTTAAAGTTG
GCTTTGCGAAGCTTTTTCATAAGGAATCTCAGATTAGACTTTTAAAGCCTCTCTAAAC
TAGATATTGAAGCCAATAATTCAACATCAAAGTGCCTGTAGCATCTACATAAATGGGTG
[A,T]
ATTTCTCCCTTCTTCAGGTTCTGAAATATATTGAGGTTTCTAGGCCTGTCAAATGATGAC
ATTCTTTACTTACTGCAAGGTCAAAAACTTGAGGGTACCATGTAGACAAGGTATCAG
GTCAGTTTTCAAAAGGACTATTGATTTGGCTCTATAAAGTCAACTCAATTCATCAAAG
CAGTTTGGTCATATCTGAAAGTATGTATTTCAACCAAGCCTTGGTAAATGACCAGCC
TTAGTAAATGACCAGTGTCTCAACTGTGTACTGTTACAGAAGAAAACAGGTTCTTACT

57636 TATGTGAACTAAAAGGGATTTGAGTTATTTTCTATTTTCTGATAAAATATTTAAGTGT
TCCTTTCTCTTTGGCCAATTAGAAGTCAATCATATATTTTGTAAATAATTTACATAC
ACATGACACATATAAACATGCAGACACACAGGCAGATTTTATAGCTTTGTAAGTTTCT
TCATTTGCCAGTTTTCAATAGTTTCTCTCCACCTTTAGACTGTCAAGCCCTAAACAATT
GTTAGCTAGGCAACCTTAAATTTGACTTCTAAAGGGATGACTCTTAGCTGAAACAAAGT
[-,A]
AAAAAAAATAAAAAATTACACTTCAAAAAACAGAGCGGAGCTCAAATAAGGGAGCAGGT
GTATATAGGTAAAGGTCCAGTTAAGACAAGATGGCCAAGGAAAGCATCTTAAGTAAAGGT
AGGACTTGTATAGATTTAAACCAATGTTAAATTTCTCATGACTCAGCTCTCCCTCTCTC
CAGGTGCACAGAGGCAGAAACCTTACAAATGGAGATTTCTTTATCAATGTAATTTCA
ATATAGCCAGCTAAATGCCAGCAAGGTATATTTTGGAGAAGTGTAGAGGCAGTGAATCT

57693 GTTTCCTTTCTCTTTTGGCCAATTAGAAGTCAATCATATATTTTGTAAATAATTTTACA
TACATGACACATATAAACATGCAGACACACAGGCAGATTTTATAGCTTTGTAAGTT
TCTTCATTTGCCAGTTTTCAATAGTTTCTCTCCACCTTTAGACTGTCAAGCCCTAAACA
ATTGTTAGCTAGGCAACCTTAAATTTGACTTCTAAAGGGATGACTCTTAGCTGAAACAA
AGTAAAAAAAATAAAAAATTACACTTCAAAAAACAGAGCGGAGCTCAAATAAGGGAGC
[A,T]
GGTGTATATAGGTAAAGGTCCAGTTAAGACAAGATGGCCAAGGAAAGCATCTTAAGTAAA
GGTAGGACTTGTATAGATTTAAACCAATGTTAAATTTCTCATGACTCAGCTCTCCCTCTC
CTCCAGGTGCACAGAGGCAGAAACCTTACAAATGGAGATTTCTTTATCAATGTAATTT
TCAATATAGCCAGCTAAATGCCAGCAAGGTATATTTTGGAGAAGTGTAGAGGCAGTGAA
TCTGTATGTGTCTGCAGCAACTTCAATCTTGCCTACTCTCAAAATAAAAAATTCAGT

58585 GAAGTTATGTGCATGCTTACTTGAGGCATCTTTTTTCTTACCAGTTGACTGTTCTTAG
AGGAAGGTCAATATACCAGTTAAACTCTACCATTTTTGCCTCTTAGTGTGCATGCTTGAGC
CTACTGCCCCACCTCCTGAGATCTTATCAGGAACCTACTGATCATCAGTTTCAGGGTTTT
TCTATCTACTGGGAGATTGCCTTTTCTGGCGCCGGCTGCAACCAAATATTATTTGAGAG
AGACAGTTTAAACAACCACCTGACCATCACCTAATGGTTGTCTGACATTCCTTGGTGGAGG
[T,C]
TGGGGGTGATCTCCTGCCTTGCCCATGTCTGCCTGCCTACTGTAACAGACCAACTTAGTT
AAATAGGTGGGCTTTTCAACTTAGTTTGTTTCTTGGTGAGATGACTGACATCATTTGTGAA
GCTCTTTAATGAACAGGGCAAAGAAAGCCTTCTCTATGCCTGGACTCGGCATGGACAGCT
CTGGGAAAGAAGAAAGCCTATTTTACCTGAGGGCCTATCTTTTATAAATATTTTGTTCAA
ATTCTTTCTTTTAAAACAAAGGTTCTTTTTCAATGACTTACCAAACCAATACACCTTAAC

FIGURE 3SSS

58649 AGGTCATATACCAGTTAAACTCTACCATTTTTGCCTCTTAGTGTGCATGCTTGAGCCTAC
TCGCCCACCTCCTGAGATCTTATCAGGAACCTACTGATCATCAGTTTCAGGGTTTTCTA
TCTACTGGGAGATTGCCTTTTCCTGGCGCCGGCTGCAACCAAATATTATTTGAGAGAGAC
AGTTTAACAACCACCTGACCATCACCTAATGGTTGTCTGACATTCCTTGGTGGAGGTTGG
GGTGATCTCCTGCCTTGCCCATGTCTGCCTGCCTACTGTAAACAGACCAACTTAGTTAAA
[T,C]
AGGTGGGCTTTTCAACTTAGTTTGTCTTGGTGAGATGACTGACATCATTGTGAAGCTC
TTTAATGAACAGGGCAAAGAAAGCCTTCTCTATGCCTGGACTCGGCATGGACAGCTCTGG
GAAAGAAGAAAGCCTATTTTACCTGAGGGCCTATCTTTTATAAATATTTTGTTCAAATTC
TTTCTTTTAAACAAAGGTTCTTTTCAATGACTTACCAAACCAATACACCTTAACCAAG
GTTATGTCTAAACCAAGGATCAACTAGGCATTTCCAAAGAGTGGCAAAGTAGTCCTCACA

62188 GGTGGCCTTCAGAGCCACAGCATCAACAATATTAACCTCCCTATTAGTAGTGTCTATTA
CTTTGGGTTTTACATATATTATCTCATTTATTCATCATAACAACCTGGTTGATAGGGATT
ATTATTCCTATTCTATTCTGAAGAACTGAGGCTCAAAGGAGCTAAAATATTTTCTCTAT
AGTCACACAGCTAGGAAGTGGCAGAGCGAGGACTCAAACCCAAGAATCCTGACTTCAAAG
CCTCTGCTCTTCTGCTGCACTATACCATCCCTATACACATCTCTGAGACTCCTGTAAAA
[A,T]
TATGTAAGGAACAGGATTTATTTATTTATTTGTCTTTTATATCCCACAAGAATACAACT
GTGTAAGGCAGGTATGTCTGTATGTTTTTATCACTGCCTCATTCCCATCTTCCACAAC
AGTGCTTACCGCACAGTAAGTGCTCGATAAATATCTTTTAAATGAGCATGTGAATGAATG
TGTGTTAGTGTAGGGCTAAGGCCTTTGGCTTCTGGTTAATTGCCCTTTTGGCATTATG
CCAATGTCATTTGCACACTCACAAACATACCCTCATATAATCATATGCACTTCAGTTTCT

63478 CATCTCAAGATATGTCAAATAAGTGATTTTGGGGTGAATATTTTGGTTTCCTTTGCTA
GAAATGAAATGTCCCTGCTTCCCATAGCCAGAAAAGATTCTTGAGTGGACAACCTGCACC
TAACTTGAACCTGAGCACTAGAAAAGTCTTTTGTTTTATTCTATGTTTTTATAAATTTAA
ATCTAATTTTTTGAATATAAAATAATACATATTTGTAAATGTGGAAACACAGAAAGTTC
TAATGAAAAAATAAAAAACCTGTATTTATCATCACGCAGAAATATCTGCTGTATTAGTTTTCC
[G,A]
TTGCTGCGGTAACAAATTGCCACAAACCTGGTGGCTTGAGACATCATAGATTTAGTATCT
TACAATTCTGGAAGTCAGAAAGTCCAAATCAGTCTCCCTAGGCTAAAATCAATGTGTAC
CAGGGCTGTGTTTCTTCCAGAGCCTCCAGGTGAGAATCTGTTTCATTATCTTTCTAGCT
TCTTGAGGCTGCCTGTATTCTCGGCTTGTGGCCCTTCTTTATCTTCAAAGCCAGCAGC
ATACTATCTTCAAACCTCTCTGACTCTGACTTCATGTTCTCCTTATTTCATCTTTAAG

65457 AACCTTTTTCTTCTGCCATGAGACTAACCCTGGCTTCTTACGTGCGGGTGGAAGGGTTC
CTAACAGCAACAGCTGACAACTTAATGAGCAAGCACTTTTTTCAGCCTCTGCCACAGTCA
CATTTTCTATCCTATTGGCTAAAGTAAATCACGAAGTCAGGCTCAGATTCAGGGGTGTA
GAAATAGGCTCCACTTCTGATGAGTGGCACGGCAAAGTCAACATTGCAAAAAGCCAGGCA
GAGATATTACTGTGGCCAGTTTTGCAAACAATCCACCGTAATACATAAAATATGTTAAG
[C,A]
AGTCCACAAAATGATCAAGGAAATGGTAGAACTATAAACACTGCAAGAACTCAGAGCCA
CATGATGTTATTGAGTCCTTGTAGTGCTCTGAAAGGGTTCAAGGAAGAAGTTGTTTTGGC
ATATGACCCTGATGAACCTTGCAAAAGTAGAGAAGAAGGGAGCACAGTTTCTGAAGAAGAA
CTTAGTAGAGAAGTGTTATTCTGTGGCCAGTACGCAAGTAATTGTTCCACCTAGAGATGTT
GACTGACTGATGAACAGGAAGCTGAGTCTTTATAATGCAGATATTCACATATTCATTTAC

69947 CTGTAAATCCCAGCTACTTGGAAGCTGAGGCATGAGAATCCCATGAATCCTAGAGGTGG
AGGTTGCAAGTGCCGAGATCATGGCGCAATGCACTCCAGGTTGGGCGACAGATCCAGA
CGCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATCTTTGCCTATGCCAACGTGGAGCTA
TTCTATCCTGTTTCTAGAAGCTTCACTGTTTTAGCTTTTACATTTAGATCTACAGTCTA
GGATCAAGTTTTATTTGTCTTATATAAATAAGTAATTGACCCTTAGCCATTTGTTGAT
[A,G]
AGCTTATACTTTTCTTACGTCAACACAGAACCACATTTGTTATTAATCAAGTCACCATCT
ATGTATGGGTTTCTGACTCTGTTCCATTGATTCATTTGTATACTCTTGCAATTTTATCA
CTCTGTTTTAATTACTGTAGTTTTATACTGGATTTTCAAGTAATTCATCTTTGGATTATGT
TGGCTACAGTTGGTTCTTTAAATTCATATAAATTCATAAGTAGCTTTTCAATTTGTA
TTTTAAAGCTGCTGGTATGTATATTGGGTACATGGAGTCTATAGATTAATTCAGGGATAA

69981 GAGAATCCCATGAATCCTAGAGGTGGAGGTTGCAAGTGCCGAGATCATGGCGCCAATGC
ACTCCAGGTTGGGCGACAGATCCAGACGCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 3TTT

- TCTTTGCCTATGCCAACGTGGAGCTATTCTATCCTGTTTCCTAGAAGCTTCACTGTTTTA
GCTTTCACATTTAGATCTACAGTCTAGGATCAAGTTTTATTTTGTCTTCATATAAATAAG
TAATTGACCCTTAGCCATTTGTTGATAAGCTTATACTTTCTTACGTCACCACAGAACCA
[C,T]
ATTTGTTATTAATCAAGTCACCATCTATGTATGGGTTTCCTGACTCTGTTCCATTGATTC
ATTTGTATACTCTTGCATATTTATCACTCTGTTTTAATTACTGTAGTTTTATACTGGATT
TTCAGTAATTCATCTTTGGATTATGTTGGCTACAGTTGGTCTTTAAAAATTCATATAAA
TTTCATAAGTAGCTTTTCAATTTGATTTTAAAGCTGCTGGTATGTATTTGGGTACATG
GAGTCTATAGATTAATTCAGGGATAACTAACATCTTTTTAAAAATATCAAATTTCCAATTC
- 71165 ACTAGAAGTTTTTTTTTTTTTAAACATGAATGAGTACAATATTTTATCAAATACTTTTGT
TTTACTGAGGTCATTTCTATTGTGAGTGAAGCAAGTTGATTTGTAAATATTAAGCAATC
TTGATTTCCAAAAGTAAATGCTAGTTGGTCATGTTCTATTATCCTCTTGTGTATATTACT
GGCTACAATAAAATATTTGTTTTTATATTTTTATATTATTATTCATACATTATTTATG
TATGTTATTTATTTATAAATATGTATTCTATTTATATATATTCCTACATATATTTTA
[G,A]
GATGTACATAGACAAGTTTGAATGGTAACAAGAATGAGCCAAGTGAAGGAAGAAATGG
TAATGTAGTAAAGAGCGGGGATGATTGCCAAGTCAGGTCCTGCAGGTGGTGAGATGAATG
TGACTCAGGGCACAGGTGAATGAGCTGACCTTAGGTGGAAGTGGGGACCCTTCTTTCATG
TACTAGGAGAGAAAGCAGAGTTTGAAGTCTGTATGTGTGTGAGCTGCTGGGCTTCTCAGA
GGGCAGATGAAATAGTTCTTATGCCATTGCCTGTGTTTTCCCTGTGGTATATGAGGCCAT
- 71347 CTACAATAAAATATTTGTTTTTATATTTTTATATTATTATTCATACATTATTTATGTA
TGTTATTTATTATTTATAAATATGTATTCTATTTATATATATTCCTACATATATTTTAGG
ATGTACATAGACAAGTTTGAATGGTAACAAGAATGAGCCAAGTGAAGGAAGAAATGGT
AATGTAGTAAAGAGCGGGGATGATTGCCAAGTCAGGTCCTGCAGGTGGTGAGATGAATGT
GACTCAGGGCACAGGTGAATGAGCTGACCTTAGGTGGAAGTGGGGACCCTTCTTTCATGT
[A,G]
CTAGGAGAGAAAGCAGAGTTTGAAGTCTGTATGTGTGTGAGCTGCTGGGCTTCTCAGAGG
GCAGATGAAATAGTTCTTATGCCATTGCCTGTGTTTTCCCTGTGGTATATGAGGCCATCC
ACTGAGAATGAAGGTGGTCAGAGTATAGGAAATTTTGAAGTGGCAGAGATCTGTGAAA
TTAGTAGAGAATTAGAATAGGATTTTCTAAGTATCCATTTGAGACTTGAGTTATAATTA
AACAAAGATCTATCCTGCAGATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACC
- 71903 TGCAGATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACCAGTTCATTTTTGTTG
CTGTTTTAAAAGCATATTGAGTTTAAAGCAGGATTGGAGTTTAAATGGGTGAGGTATTCTCA
CTGTGACTAAGTTTGATGAATTGAAAAGCGTAGTTGTAGAAAGGAAACTCAAGAAGGAAA
TTCTTGGGAAACTTAAAGAATCGTATATATGCAATGTCACTTTTTAAGACAACATAATAT
TTTTAAGAATTTACTACTTTTGAGGTGCTGTAATAATATATTACATGTATAATTTCATAT
[A,G]
TCTTCAACTACTAGTTCCTGTAAATAAGTATGCTGATGATGACACGTTCCATTTCTTTG
ATAGCCACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCCTGACTCCCAAATTC
TCTAAGACCCTCAGCATTAAACATATATTTTATTTAATGTTATTATATATGTATCATTAC
TTTTACAACCTTAAACCAAACATTTTAAAAATTAGCTACAACCTGCAAAATCAACTTAAAA
ATTTCAAAGAGCCATTTAACATGATAAATTAAAAATTTTTAGTAAAAACAAATCACCCT
- 71908 ATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACCAGTTCATTTTTGTTGCTGT
TAAAAGCATATTGAGTTTAAAGCAGGATTGGAGTTTAAATGGGTGAGGTATTCTCACTGTG
ACTAAGTTTGATGAATTGAAAAGCGTAGTTGTAGAAAGGAAACTCAAGAAGGAAATTTCTT
GGGGAAACTTAAAGAATCGTATATATGCAATGTCACTTTTTAAGACAACATAATTTTTA
AGAATTTACTACTTTTGAGGTGCTGTAATAATATATTACATGTATAATTTCATATATCTT
[C,T]
AACTACTAGTTCCTGTAAATAAGTATGCTGATGATGACACGTTCCATTTCTTTGATAGC
CACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCCTGACTCCCAAATTCCTAA
GACCTCAGCATTAAACATATATTTTATTTAATGTTATTATATATGTATCATTACTTTTA
CAACTCTTAAACCAAACATTTTAAAAATTAGCTACAACCTGCAAAATCAACTTAAAAATTC
AAAGAGCCATTTAACATGATAAATTAAAAATTTTTAGTAAAAACAAATCACCCTGATAC
- 71994 TTGGAGTTTAAATGGGTGAGGTATTCTCACTGTGACTAAGTTTGATGAATTGAAAAGCGT
AGTTGTAGAAAGGAAACTCAAGAAGGAAATTTCTGGGGAACTTAAAGAATCGTATATAT
GCAATGTCACTTTTTAAGACAACATAATTTTTAAGAATTTACTACTTTTGAGGTGCTGT
ACTAATATATTACATGTATAATTTATATATCTTCAACTACTAGTTCCTGTAAATAAGTA

FIGURE 3UUU

TGCTGATGATGACACGTTCCATTTCTTTTCGATAGCCACAAAAACAGGAAGTGATGACAAA
[G,A]
CTGGATTCTAACTCCTGACTCCCAAATTCTCTAAGACCCTCAGCATTAAACATATATTTTA
TTTTAATGTTATTATATATGTATCACTTTTACAACCTCTTAAACCAAAACATTTTAAAA
TTAGCTACAACTGCAAAATCAACTTAAAAATTTCAAAGAGCCATTTAACATGATAAATTA
AAATATTTTAGTAAAAACAAATCACCCTGATACTTTAATATTCTTAGGTCTGAGAAAAA
CCATTATGTCGTATTATTCTGCGTTCTGCTAGCGTTTCTACTGCTGGACATCAGAAAT

72010 TGAGGTATTCTCACTGTGACTAAGTTTGTGAATTGAAAAGCGTAGTTGTAGAAAGGAAA
CTCAAGAAGGAAATTCTTGGGGAACTTAAAGAATCGTATATATGCAATGTCACCTTTTA
AGACAATAATTTTTAAGAACTTACTACTTTGAGGTGCTGTAATAATATATTACATG
TATAATTTTATATATCTTCACTACTAGTTTCTGTAATAAGTATGCTGATGATGACACG
TTCCATTTCTTTTCGATAGCCACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCC
[T,C]
GACTCCCAAATTCTCTAAGACCCTCAGCATTAAACATATATTTTATTTAATGTTATTATA
TATGTATCATTACTTTTACAACCTCTTAAACCAAAACATTTTAAAAATTAGCTACAACTGCAA
AATCAACTTAAAAATTTCAAAGAGCCATTTAACATGATAAATTTAAATATTTTAGTAAAA
CAAAATCACCCTGATACTTTAATATTCTTAGGTCTGAGAAAAACCATTTATGTCGTATTA
TTCTGCGTTCTGCTAGCGTTTCTACTGCTGGACATCAGAAATAGAGAATAGTAGAGCC

72612 CTGAGATAAGAGCAGAGACAGGGGAAAAGCAAAACATTTCTGAAGAGGCAGTTGGTCTAG
TTTGGCTATAATCACTAGACGGGTAAAGGAACATTGGGTGCATTAAAAGTAGAGAGCCTG
GGATGAAGGCGTGAAGGCTGAGTAAGAATCTCTCACTTGGTAGTAATTTCTAGTTTATCC
CCCTCTGACCTGCAATTCTGAACATGGTGTAGCTTGGTCAATAAGGAAATAAATTGCCTT
TCTGGCTGGAGAGGCAAGGGTAGACAATACATTGTGCCAGCTGAACTTCTGTCTCTCC
[G,A]
CTCTGGAGAAGAGCCAGTCACAATGTATGACTCAGCACGCCGGGCACCTCTCCACGCCA
GCCAGGCTGCCAGCCACTTGTGAATCACAAGTGCCATTTCCAATCCCACAGTGAC
CCAAGCTCTCAACTTAGACTAGTTTCTCTGTGATCGGTCTATGATTGTCATGGAGCACA
AAAAGTATTAACCTTCAACATTTATTTTCTTCTGATGCTTGAACCTTTATAAGC
AAGAGACTGATTTAATTGTTCTCATTATCATCTGAGCATGCCGTCTTGGCTTGCCTTT

73294 TCTGTAGAAAATAATAATAGCAAAATTTCTCCCTTGAGAAGCTTCATAAATTAATCTCC
AGAGCCAGTATATGTAAGCCGACAGATTATGAAATATGATTAAATGCTCTGCCAGAGAA
AGGTCAGGGCTTCAAGAAAATCATCATAATATCAAGAAAACTAATCTGCAACCTGTTAT
ATGATTTTTTAAAAATCACCCCATCTTTTACTGTGCAAACTGTAGATTTTGTAT
TTTATTTGAGGCTATAGTTTATGTCTGAATCACACATATGAGTATTACTTTCTGTGA
[A,G]
GTTTTCTATGACCCCTGCAATCAAACTTGGGTCTTCTGTAGTTTCTATCACAGTATCCT
TCACTTTTCTTTCACAATCTTGGCATATTCTATACTACATATTTGTTTAAATATT
TGTTTTATCTTTATAGATGATTGGCTTCAAGGAGGAAACCATGTCCTTTTGTTCAGT
CCTTTATTCTCAGCACCTTGCACAACATGAATATACAAAAATATTTGTAAATGACCAT
CGAATGAACAAGTGCTCATTAAGTACCAAGCTATATGCCAGGGGTGCTGATGGTTAGAA

73385 AAATATGATTTAATGCTCTGTCCAGAGAAAGGTCAGGGCTTCAGAAAAATCATCATAATA
TCAAGAAAACTAATCTGCAACCTGTTATATGATTTTTTAAAAATCACCCCATCTTTT
TACTGTGCAAACTGTAGATTTTGTATTTTATTTTATTTGAGGCTATAGTTTATGCTTGAAT
CACACACATATGAGTATTACTTTCTGTGAAGTTTTCATGACCCCTGCAATCAAACTTGGG
TCCTTCTGTTAGTTTCTATCACAGTATCCTTCACTTTTCTTTCACAATCTTGGCATATT
[C,G]
TATACTACATATTTGTTTGTAAATATTTGTTTATCTTTTATAGATGATTGGCTTCAGG
AAGAGGGAAACCATGTCCTTTTGTTCAGTCCTTTATTCTCAGCACCTTGACAACATGAA
TATACAAAAATATTTGTAAATGACCATCGAATGAACAAGTGCTCATTAAAGTACCAAGC
TATATGCCAGGGGTGCTGATGGTTAGAAATGAGCAGGGGCACAAAATCTTTGTTCAATT
AGTGAGCAATTGAGGCAAAAAGAAAATATTAATGGTGATTATACAATATAATGCAATGCA

74121 CTCTCACCTCAACCTCTTAAGTAGCTGGGACTACAGGTGCATGCCACTATACTGGCTAAT
TTAAAAACAGAACCAACAAACAAAAACACACCTTTTAAAGACTGGGTCTCACTATGTT
GCCAGGCTGGCCTTGAACCTCTGGCTCAAGCGATCATCTGCCTTCCAAAGTGCTACC
TTCTAGAGTATTGGGATTACAAGCGTGAGTCATCTGCACCAGGCTGAAGCATTCTGTAA
TGGAGAAATACCTGGGTGCTATGGAAGGGCAGAGGGGGAAACACAGAGGAGTAACATCTA
[G,A]

FIGURE 3VVV

TTTACGTTTGTCAAGGAGAGGCCAGGAAAAGACTAACTACAGGGGAGATAAACTCCAACCA
AGAGTCTTTAAGTCTTCCAAGACTTACGTACAAGTTTCTTATTGCTAAAATGGAAGTTTT
AATGAACATTTATTTATTTATTTGAGATGGGGTTTCACTCTTGTTGCCCAGGCTGGTGTG
CAATGGCACAATCTTGGCTTACTGCAACCTCTGCCCCCAGGTTCAAGGTGATTATCCTGC
CTCAGCCTCCAAAGTAGCTGGAATACAGGAGCCTGCCACCATGCCCAGCTAATTTTTTTTT

75646 CACTCCAGCCTGTGCTACAGAGAGAGACTCCGTCTTAAAAAACAAAAAATAACAACA
ACAACAAACAAAGATAGATGCATAGAGTTTTTCACTGTTGCACTATTTATATTAGCCAAA
AACC GGGAACAACCTGAATATTCATCAAGTGGGGACAGGTTGAGTAATCATGTGACATA
CATAAATTGCAGCACTGCACACTTGAGAAAAGAAGTGAGAAATGTCTCTATTTCTAGTG
TGGTTTGCTCTCCAGAGTATACTGTTAAGTGAAAAAAGCACTGTGGCCTCAAATTTATCT
[A, G]
TAGATTCTATACAATCCCCATCAAATCTCAGCTGGCTTCTTTGCAGAAATTCACAAGCT
GATCTTAAAATGTGTATAGAAATCCAAGGGACTCAAATTCATATAATTCAAAGACTAGC
CAAAACAATCTTGAAAAAGAAGAGCAAAGTTGGAGGGCTCATACTTTTCAGTTTCGAAAG
TTGTTATGAAGCTACAATAATCAAGATAGGGTGGTCTGGCATAAGGATAAACATGGAAC
AGAATTGAGCATCTAAAAATAAGCCTCATATTTCCAGTCAATTGACTTTTAACCAGGGT

75698 TAACAACAACAACAACAAGATAGATGCATAGAGTTTTTCACTGTTGCACTATTTATAT
TAGCCAAAAACCGGGAAACAACCTGAATATTCATCAAGTGGGGACAGGTTGAGTAATCAT
GTGACATACATAAATTGCAGCACTGCACACTTGAGAAAAGAAGTGAGAAATGTCTCTATT
TCCTAGTGTGGTTTGCTCTCCAGAGTATACTGTTAAGTGAAAAAAGCACTGTGGCCTCAA
ATTTATCTATAGATTCTATACAATCCCCATCAAATCTCAGCTGGCTTCTTTGCAGAAAT
[C, T]
CACAAAGCTGATCTTAAAATGTGTATAGAAATCCAAGGGACTCAAATTCATATAATTCAA
AGACTAGCCAAAAACAATCTTGAAAAAGAAGAGCAAAGTTGGAGGGCTCATACTTTTCAGT
TTCGAAAGTTGTTATGAAGCTACAATAATCAAGATAGGGTGGTCTGGCATAAGGATAAA
CATGGAACAGAATTGAGCATCTAAAAATAAGCCTCATATTTCCAGTCAATTGACTTTTA
ACCAGGGTGCCAAGAAAATTCATGGGGGAAGAATTTGTCTTTTCAACAACCTGGTGCTGG

79007 AATATATTTTTAAGTATATTGATTGCTTTTGGAGGGTTCTAGGAAACAAACAAATCATTT
TGAAAAGTGGTAAATAAGGAAAGACTTCAGTTCAAGACCACTCTGAGCAACATAGTAAG
ACCCCATCTCTACAAAAAATTTAAATATCAGCTGAGCATTGTGGTGACATCTTTAGTCC
TAGCCACTTGAAGGCTGAGGCTGGAGGATTGCCTGAGCCCAGGAGTTCAAGGCTGCAAGT
AACTATGATGGCACCCTGTGGTCCAGCCAGGGTTAAATAGCAAGACCCTGTTTCTGGCG
[-, A]
AAAAAAAAAAAAAAAAAAAAAGGAAGACTTAAACATACCTTTCTATATGAACTGTGCCT
CGGAGTAACTAAATAATTGATTAAAGCAAGTTTCTCTGTATAAAAGTACTCCAGCTAAAA
CATTAAGGAGAAATGATAGAATTCAAATATCACAAACCCCTAAGGAATTTTGCATCAAGA
CAACAATAATTAATGACTGATAACACCACACACAGAATACAGACTTATTAATTGTATAAC
TCCTGATCAAGTGCATACCACTATCTGTGAAATAGTTTTGCCAAAAAAAAAAAAAAAAAAT

80043 ATTCAGGCGTGAGCCACTGCACCCAGCCACCCTTGGTTTTTTTCAACAAAAAATTAAT
AGAAATAAAAGAATAATAGTTGGTCAAGGAAGCTGTAGAATAAGAAAGACTGCCACATAC
ATCAATGGCAGTGGGCGGGCTTTGTTTGAATCCAACCTAGCATGCAACATTTGATAAA
AATTTCTTTATTTAAAAAGAAAAGTTTACAAAAAATCAGAAAAAATAAAAAAGATTGAG
GATCTCAGGACAACCTAGCCTAGATAATTTATAAAGATTAGATAACTGACTCATTTTT
[A, G]
TTAGTTTCTTTCTAATAAGGCAATATGTATTAGATATATCAGAGTAGAAGGAAATATTT
TTCTTACATCTATTTGGCTTTTTTAAATATAAACATATATAAGTAAAAACCAAAATGATTT
ATAATCCCACTTTATGTAACCTATCTTATTTTCAAAAAAATTTATGCAAACTAGCAT
TTGTGTGCTTTTTTCTTTTGTGTTTGTGTTTATATCCTTTTTTAAATATATCCTTTT
TATGTACCTAAGCAGCTGTATACTATACTGCATACTATAGTGTGAACCTTGTCTTTTCC

80499 AAAAAAATTATGCAAACTACTAGCATTTGTGTGCTTTTTTCTTTTGTGTTTGTGTGTT
ATATCCTTTTTTAAATATATCCTTTTTATGTACCTAAGCAGCTGTATACTATACTGCATAC
TATAGTGTGAACCTTTGTTCTTTTCTTCGTCTTTACAACATATTGTGGAAAACGTTCCAT
ATCAGAATATAGATATGCCTTTTTGTAGCCATTGAAATGCAAGAAAAAAGAATATAGA
TCTGTCTCATTTTTTAAAAATGCTGTATAATCTGTAGCACGAATTTACTATAATTTATTC
[G, C]
CATGCTCCCTTATCGATGGGCATGTAAATTGTGTTAATTTTATATGATATAATGAGTATC
CTTATATGTATATCTTGGCACAGTTTTTTCAGTGTATCCATAAAGTTTCTTGCAATGAAA

FIGURE 3WWW

TTATAGGGCAACAAGGGTGTGGTGGCTCTTGTCTGTAATTTCAACACTTTGAGAGGCTAC
GGCAGGAGGATTACTTGAGGCCAGGAGTTTGAGACCAGCGTGGACAACATAGTGAGCCCT
CACCTCTACTAAAAATTAAAAAAGAAAAAGTTTGGTATGGTGATATGTACCT

80940 GGTGGCTCTTGTCTGTAATTTCAACACTTTGAGAGGCTACGGCAGGAGGATTACTTGAGG
CCAGGAGTTTGAGACCAGCGTGGACAACATAGTGAGCCCTCACCTCTACTAAAAATTAAA
AAAAAAGAAAAAGTTTGGTATGGTGATATGTACCTGTAGTCCCAGATACCCAGGA
GGCTGAGGTGGGAGGATCATTTGAACCTGGGATGTCAAGGCTACAGTGAGCTATGACTGT
GCCACTGCACTGCAGCCTGGATGACACAGTGAGACCCTGTCTCAAAAAAAAAAAAAAAAA
[A, -, T]
TACAGGCCAAATCCATATGCTTTTAAAGGATATTTTTGAATTGTTCTCAAAAAGAGGCTT
CACCAATTAACCATCCAGGGTATACAAGATACCCATTTCTCCATGTCCTTACCAACAGTG
GCTCTCATCAAGCCTTGGTGAAATGCTCTCATACTGATACTTTAACGACTAAAAGTCAT
GACATATCTGCTTAGGTTGTAATTGCCTCCCTCTAACTTATACAGAGAGAAATTTAGAG
TGTTGTCTCAGCTTGGTTCAGTGTTATCCAAGCCATTAACCTTTGTTTTGCCTTAGATT

81615 AGTCTCGCTGTGTCGCCCAGGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTC
CGCTCCTGGGTTCAAGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGACCTACGGGT
GCATGCCACCACCCCGGCTAATTTTTGTATTTTAGTAGAGACAGGGTTTCACCATGT
TAGCCAGGATGGTCTCGGTCTCCTGACCTCGTGATCCGCCCGCTCGGCCTCCCAAAGTG
CTGGGATTACAGGCATGAGCCACTGTGCCTGGCCACAATGGGGTATTGTTTTATAGACT
[G, T]
TTGAAATCTGCCTTTGGAACCATGGGTTTGCTGTGTTGTTATGGTGAATGAATTAGGTG
CACAATACTAGTTTTTAAAAAATGAACCTCACACTAGGTACACCTTGAAAAATTATTCCA
GAGCTATAAGAAGAGCTATAAGAAGAAAAATATGATGGGTCAATTGCTCCAAAGAAAGGTT
TTAAATGTAAATTTGACTTAATGAATAGGACAGTGATCCCTAACCTCCTCCTTGCTAT
TCTTCAGGGATCTCTTCTAACAAGGGCTAATGCTTACCTAAGCTGTGAAAAGCCTGCTG

82599 CCTTAAAGGAATTTGACTCACAATTTGAAAAACTGCATTGTAGAATATTTTAGAGTCT
CTTCCCAACCTCAGAGTCAGATTTATTTCAAGATGGCCCCTGTAAGACAGCTTCAAGCT
TGTGAGTGACTTTCTTTTTCTTTTACTTCTTACCATTACCATGACTCCCAAATAAG
TGACTCTTTGGCTTATTTGGTAACCATGCTAATTTCTACACATAGAACCTAGAGCATTT
ACATAAGACCACCCAAAGCTTGTGTTTTAACCTTGCTTCTCCTTTCTTTCTTTGATT
[C, -]
ATTGATTATGTTTTCTATTGCTATCTGTTCAATCTGTGTTTCAGGCAGTGACAGGTACT
GAGGCAACAATGGTGAGTAAAAGCAAGCATGCATCCTGAGATATACTGGGAATGAAAGAA
GCTAATCCAAAAGCATACAGGAAAAATTTTTCAAACCTTGATAAATTTCTGTGTAAGCATA
TGGCATTGCACGTAAACAGGGGAACCGCATTTAATATGGAGTGTTGGAAAAGGCTTCTGTG
AGAAGTGACACTTGAGCTAAGACTAGAAAAGTGAAAAGAATATAACCAGGTACTGGACAG

82952 CAGGTACTGAGGCAACAATGGTGAGTAAAAGCAAGCATGCATCCTGAGATATACTGGGAA
TGAAAGAAGCTAATCCAAAAGCATACAGGAAAAATTTTTCAAACCTTGATAAATTTCTGTG
TAAGCATATGGCATTGCACGTAAACAGGGGAACCGCATTTAATATGGAGTGTTGGAAAAGG
CTTCTGTGAGAAGTGACACTTGAGCTAAGACTAGAAAAGTGAAAAGAATATAACCAGGTA
CTGGACAGCATCATGAGTGCAGGCACAGGTGACATCGTATCACAAGCTTCTAAGGCTGAA
[-, G]
GGGGCGTGAATTGCTAGCTGGAGAGTGGAAGGAAAAGATCTTCAAGATAAAGCTGGAAAA
ATAACAGGGCCAGGCCTCATAGGTTTCTGTAGACCATGGAAAGAGGTGAAGGTTATTTT
GAGCCTGGATGACATGATAAACTCACATTGTAAAAATATAACTGCAAGGTAGAGAATGG
ATTGAAGAGGTCCAAGATTACGCAGACAGAGCTATGAACAGCCTATTGCAATGGTCTGGG
TCAAGCATGATGGAGTAGGGTTGGAATAGGGTGGTGAACCTTTATTAGTTATCTTCCTTA

85020 ATCCCTGGGCACTGCTTGCAAGGCACTTAATTCTTGATTCAAATGAACTTTAAATGTTT
TATCCATGATGTTATGTCTAAGAAACATGTCAAAGAAACATGTCAGAGAACCTTGACTTT
GAATAGAAATCATGGCTGTGCTTTGAGGGAAACAAAATAAATCACAGAGGTAGGAATGCA
TAGTTACAAGCTACTGTTTGTACACAGCAGAGACCAATCTACTCTGTGTTCTCATTTCC
TCTTCTAATTCCTCATCCCTACACTCCTTCTGTGTGAAGCCCATGTCTGATCCTGCCTA
[A, T]
TTCAGTGACTGGGGTCACTGCAGATGCGTGACAGGGTCTGTTATGGGATCCGGATTC
TGCCGCTTCTCCAGACACAAGTTTCCCCTCATACCTGTTGTTCCAGCAAATCCAAGCTA
TTCTCCTTTCCCACTTGCACTAGGTTCTTTCCCTAGTCTGTGCTTGCATGCATCCTATT
TTTCTCTGGTATTTTTCAAATTTTACTTTGGCACCTGGAGAAGTTTTGGCACCACCATT

FIGURE 3XXX

TGTCAGGTGTTTAACTTTGTGCATTTCTCGTGTGAATGGGAGCGTAGGTCCAGCATCGT

88843 CTTCTGGTGTCAAAACTATTAGGTGCATTTCTGTAACCTCTATGCACCTCTCCCCCA
CCTCCCAGGTGTTATATTTTACAGGCTGTACACCTTTTGTACCTCTCCTGAGGAGTTG
TGACATTTGGTGTATAATTAATTCATTTGTCTCCTTTATAAAATTGTGAACCTGCATGT
TTTGCTTTTCATTTGTATAACCAGTATGTGAAAAAATATGAGCCACATGAATGAATGATT
GACCAGAAGTTTCAGGCTTACAAGTAGGAAATATTCAAATATAGGACATTAAATCCAAAGG
[C, T]
CTCAGACCTACTTGTACCTTGGTCTTTACATTAATCATGTTATTTATCATCCAAACCAGG
ATACTCTGAGAGCTAAAGAGGATGCTATTAATATTAATAGCACTGGGAAGAGTCAAAAGC
CATAAATAATCTAGGCAATTCAGGACCTATGTCAACATCATTAAAGGCTTTTCAAGGCAGT
GTTTTTGGTTTTTTATTTTTGTAGAGACAGGGTCTCCCTATGTTGCCTAGGCTGGCCT
TGAACCTCTGGGCTCAAGCAATCCTCTGCCTCAGCCTCCCAAACTCTGGGATTACAGG

89700 ATACTGTAATTCTTTTTAAACCTCCTTCTTCAAAGAATCAGCCCGATTGTTGTAC
TTGAATTCAGATAACAAAACACCTTTTAGTTACTTAGAAAGATTAGATTGAAAAATAG
TGCTGAGTTCCTAGAAATTAAGTGAGAATGAAAAAAGAATCAATGAAAGTACAGTAG
ATCTCCCGGACAAGGAGAGACCATCTGCATAAACTGAAGATATAAAATATGTGACTTCC
TACTTTTAGATTAATCTACATTTTGCCTTTGGACATGGTAGAAGATTCAAATTAACCC
[G, A]
TAAACAGTCAGCACTACGTGGAAGTAGGAGCAGCAGTAGGCTGCTGTTTGCTTAGGGTTT
CCTGGGTACCAGGCTGCCTGCTAAGCACTTGTGAGTTATTTCACTCAGCTTTCCCATAGC
TCCAGGAGGTTTATGGCACTTTGTCCCATTTTACCTTCGATGAAACTCTGGTTCTGAAA
AATTACTTGCCCAAGTTTGCATGGCTATTAAGTAGGGAAAGCATCATGTTTAGGAAATGC
AGAGCTCTTCAACTCTCCAGCCTGCAGATGCTCAGCATGGCTGCAGCTCTGAGGGGAG

90002 AAACAGTCAGCACTACGTGGAAGTAGGAGCAGCAGTAGGCTGCTGTTTGCTTAGGGTTT
CTGGGTACCAGGCTGCCTGCTAAGCACTTGTGAGTTATTTCACTCAGCTTTCCCATAGC
CCAGGAGGTTTATGGCACTTTGTCCCATTTTACCTTCGATGAAACTCTGGTTCTGAAA
ATTACTTGCCCAAGTTTGCATGGCTATTAAGTAGGGAAAGCATCATGTTTAGGAAATGCA
GAGCTCTTCAACTCTCCAGCCTGCAGATGCTCAGCATGGCTGCAGCTCTGAGGGGAGC
[G, A]
CGGGACACCTATGCATGGCCACCTGCCTCAGGCACCCACAGACGAAAGTGGTACATGTGG
AACGGACAGACAGAGAACAGCCTAAAATTGGAAGCTAAATTTGTGTGAGAAAGACAAGTAC
TTCAGAGAAGATAGTGTGGAGTCGCAAAATAAGTTTTCATGAGAGCTCATAAGAAAACAG
CCTAAAAGTAGAAGCTAAATTTGCGTAAGAAAGACAAGTACTTCAGAGAAGTTGGTTGGGA
GTAAGAAAGCAAGTCTCATGAGAGCTCTGAGGGGTGTAATGGGACTTTTAAACAGCCAAA

90615 TCTAGCCTAGCAAGAGGAGCTCAATGGATGGAAGTCCTCACTTGTTTCCCTGTGTTAACA
TAGAAGGGGGTCTTTTTAAAAATTTGTTTTCACTTCAGCTTTTCTGCCAGAAATGTCTAG
TGATGTGATGTTTTAAAAAAACCTAAGTATCTGTTTCCGCCACAAATCCCATTAAAGAC
ATAAATGGAGTTTTATTTTGTGGATGTTTAAAAATCCATGGACTTGAACCTTTGGTAGTT
TCCCAAATATGTAGAATATTCAGCTAGTTTTCTTCAATTTCAGAATCTTTCTTTTCTATC
[A, G]
TTGTTAAAGACACAGGGTTGCATAATAACCATTAAAGTTTGAATTTGTGCAATTAGACAAC
TTCTTATTAGTCAAGAAGTCAAACTTTTTGTGTGAGTACAGCTTGAAAAATCAGCTTTAGT
TTCCAAAGAATGGCCAGTTTGAAGTATAATATTCTTTTTGCTTACTTGAAATCTGCAAA
TAAATGCTTTAAATTAGGGACAAAGTGATTATTTGCTTTTATTTAAAAAATAAGGGAAAC
AAAACCTATTACAATCTCTTCTACAGGGTTAGTACTATTCTATTTGTTGATTGCCTCAGC

92506 CAGTCCCAGTGACCAGAAAGAACATACCTTTATCAGCTCGCAGTTTCTTTGGGACAGGTG
TCTGGGCACAGTCTAGTTGAGTTCTCGGCACAGCTGCCATTAAGATGTGAGCCAGAACTG
GGTTCTCTTCTGGAGGCTGAACTGGGCAAGAATCCACTTCCAAGCTCAGTCAGAATGTTG
GCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCTACTTTCTTTAAATTTAACA
AGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAGAAAACAGAGTACACATACTTGAAT
[A, G]
ATGATATATAACATTGTAACATAACTCAGTCACAGAAGTAAGACCATCACATCTGCCATG
TAATGTGCGTTAGAAAACAAACCATGGAACAGCCCATGCTGAGGGGCTGGAAATTTATGCA
AGGGTGTGAACACCAAAAGCTGGGAATCCTGGGGGTACCGTACACAGTCTGTTACATT
TCCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGACCTTAAAT
ATAGCCCTGAACCTCCCTGTCAAGGAAGAAGTAGGAGGTTTCAACAAGTGATCAGTAAT

FIGURE 3YYY

92558 GACAGGTGTCTGGGCACAGTCTAGTTGAGTTCTCGGCACAGCTGCCATTAAGATGTCAGC
CAGAACTGGGTTCTCTTCTGGAGGCTGAACTGGGCAAGAAATCCACTTCCAAGCTCAGTCA
GAATGTTGGCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCTACTTTCTTTAA
ATTTAAACAAGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAAGAAAACAGAGTACACAT
ACTTGAATGATGATATATAACATTGTAACATAAECTCAGTCACAGAAGTAAGACCATCACA
[T,C]
CTGCCATGTAATGTCGGTTAGAAACAAACCATGGAACCAGCCCATGCTGAGGGGCTGGAA
ATTATGCAAGGGTGTGAACACCAAAAAGCTGGGAATCCTGGGGGTACCGTACACAGTCTG
TTCACATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGA
CCTTAAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTTTCAACAAGTGA
TCAGTAATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTGCCCTGGTAGGC

92667 AAGCTCAGTCAGAATGTTGGCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCT
ACTTTCTTTAAATTTAACAAGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAAGAAAAC
AGAGTACACATACTTGAATGATGATATATAACATTGTAACATAAECTCAGTCACAGAAGTA
AGACCATCACATCTGCCATGTAATGTCGGTTAGAAACAAACCATGGAACCAGCCCATGCT
GAGGGGCTGGAAATTATGCAAGGGTGTGAACACCAAAAAGCTGGGAATCCTGGGGGTCAAC
[G,A]
TACACAGTCTGTTACATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAAT
TTCTGCTATGACCTTAAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTT
TCAACAAGTGATCAGTAATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTG
CCCTGGTAGGCTGCTCTTCAAAGTATGACCTCCTCATTGTTTCTCTGCTCTACCACACAC
TCATTCCCCTCCAAGAAGGCTGCCACCTGTAATGACCTGTCTACAGAGCCTGTGATAGT

92803 AATGATGATATATAACATTGTAACATAAECTCAGTCACAGAAGTAAGACCATCACATCTGC
CATGTAATGTCGGTTAGAAACAAACCATGGAACCAGCCCATGCTGAGGGGCTGGAAATTA
TGCAAGGGTGTGAACACCAAAAAGCTGGGAATCCTGGGGGTACCGTACACAGTCTGTTCA
CATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGACCTT
AAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTTTCAACAAGTGATCAG
[A,T]
AATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTGCCCTGGTAGGCTGCTC
TTCAAAGTATGACCTCCTCATTGTTTCTCTGCTCTACCACACACTCATTCCCCTCCAAGA
AGGCTGCCACCTGTAATGACCTGTCTACAGAGCCTGTGATAGTGACTTGTGATAAATGG
CTATTAGCACATTTACCAATCAAGGTCTGTTTGCAATTGCGTTGTGGGTCAAATTTATG
TTTGTTTTAACTGAGGTCTTTAGTTTATTTTCAAGCAGAGATCTGGGCTGGAGTGTCACCT

95079 TTTGGTAAATCTTCTTTTCACTAGACCACAAGCCCTTGCAAATGTTCTCTTTTCTAACT
CTGGTAGCAGAAGGACCACTTGAGCCTCAAAACAAAACGGCAGTGCAAGTAATGAGGGTAT
TAGGTTGATGTGTTCTATTACGACCTGCTCCCGAGCTACCGAATAATGAATGAGCATGA
ATTACACATTGTGAAAACAGGAGAATCTGCCTTCTTTGTGTTGTATGCATCAAGCAGTTT
CAAAAGGGCTTTGCAATTGTGTTTCTCACACAAAGCCACCCATTTGTGAAAACCCATGTG
[T,A]
AAAGGCAAAGAGAAGTGTCTGTGTACAGGTTAACATTTAACTAGACTGGCAGAGCTTTTA
ATAATTTCTATAAGGTTAATGGCTTCGTTAATATGCAACCTGTGATTTGGTCCAAGTTAA
ATTTTACTTTGCCAGAATACATTATAATATAAAGCTTAAGCTTTATTCTTTCAAGTTTA
GTCATTTAACACATAATATTGATCAATTATGCATGTTGGACACAGAGCTCTGAATAGAGC
TTTGAAATATAAACTATGGTTTTAGTCCTCTTAGAGCTATGATGTTTGGTAGGTTAGGT

95089 CTTCTTTTCACTAGACCACAAGCCCTTGCAAATGTTCTCTTTTCTAACTCTGGTAGCAG
AAGGACCACTTGAGCCTCAAAACAAAACGGCAGTGCAAGTAATGAGGGTATTAGGTTGATG
TGTTCTATTACGACCTGCTCCCGAGCTACCGAATAATGAATGAGCATGAATTACACATT
GTGAAAACAGGAGAATCTGCCTTCTTTGTGTTGTATGCATCAAGCAGTTTCAAAAGGGCT
TTGCAATTGTGTTTCTCACACAAAGCCACCCATTTGTGAAAACCCATGTGTAAAGGCAAA
[G,A]
AGAAGTGTCTGTGTACAGGTTAACATTTAACTAGACTGGCAGAGCTTTTAATAATTTCTA
TAAGGTTAATGGCTTCGTTAATATGCAACCTGTGATTTGGTCCAAGTTAAATTTTACTTT
GCCAGAATACATTATAATATAAAGCTTAAGCTTTATTCTTTCAAGTTTAGTCATTTAAC
ACATAATATTGATCAATTATGCATGTTGGACACAGAGCTCTGAATAGAGCTTTGAAATAT
AAAATATGGTTTTAGTCCTCTTAGAGCTATGATGTTTGGTAGGTTAGGTGAAGTAGACA

96495 GGAAGCCCACTGCGATTTTCCAGATAATTGTGAAACAACTACGGGCCATTACAAAACCA
TAGGAAATTAGAAGTGAGGAGTAATTTGGAGACTGACAAGCTCTACCTTCATCTAAAGGC

FIGURE 3ZZZ

- AGAATTTCTTCTGCAGTCTCCCTAACGAAGGAATCGTTATACCTCAGGGATGGGATAGTCA
CTACCACATAAAGTAGTTTCTTTTCTGACATGCATAACCTTAGAAAGTTCTTCTTTGAT
TTACAATTAGCCTCATAGTTCTGTTGCTGCCTATTGGAGTTTTACTACGTGTACAGTCAG
[G,A]
CAGGGCTTCCATTTCAGTCACCAACCCATTAGTACTGTTGTACTAGTAATTTATGGATGGCG
TCCATTCTTACTGGTCCATGTCCATTCTGATTTGTGTTTGTGCCATTTTTAAGTGTTTT
GAATATTAACCCTGGTATCAGATAAACATGGAGTCCTGACTTTTTCCATAATCATGAATA
ACAGTGAATAGTTACATCAGATTTGTGTGCCACTGTGGTCCCATCTATGAAATAGGGAT
AATAATTGTACCTAGTTCATAAGGTTGTTTGAGGATAGTGTGGAATAAAGTATAAAAAAGG
- 97070 ATAGTGTGGAATAAAGTATAAAAAAGGGCTTAGCCTGGTTTTCTCAAATATTGCAATAAATG
AAACTTAGCATCATGATGCTGTCACAATGGTTCAATGATAATTGAAAACATCGATTCATC
ATTTAGCATCCTCAGCTTATCAGTTTTCTCACTATCTAGCTCTTCTTACACTGGACACTTC
CTAATTATTCTTTCAATGTTTTCTGGAAGTTAGTTGAATAATTACTGTGCACCCAGATACT
ACACAGTAGTCCCCCTTGATGCATGAGGGATACATTCAAGACCCCCAGTGGATACCTGAA
[T,A]
ACGCAGATATTTCCAAACCCATATATACTATGTTTTTCCCTTTTGTACATACCTATGGT
AAAGTTTGATTCATAGAGTAAGAGATTAACAATACTAATAATAGAACAATTATAACAAT
ATGCAGAGTAAAAGTATGTGAATGCAGTCCCTCTCTCAAAGCATCTGATTGTACCGTACT
TACCTATTTTTGAACCACAGTTGACTGTGGGTAAAAAGGAAAAGTGCAGATAAGGGGGGA
TTACTATACTACGAGTTTTACATGTACCATTTAACTAAATCATTACGACTCTATAAAGTA
- 99913 GGGTGGGGATTGGTTGTTTTGCTTTGTTTTGTTTTCTTTCTTTCTTCTTAGGGGAAAAAGA
CATGCAGGGCTTAGTATTCCAACAATTTGAGAAACCAGGGGGCTGGGATTCAATCATTTT
TATGACAAATAGTTACTCGAGCACCTACTTTATTCTTGGGTACTTTTATGAGTCCAGGGG
CTGCTGCATTGAACAATACAGAAAAGAAGTCTTTCACTTAGAACTTACGTCCTAGTGGG
GGTTGGGGGTTGGGGGTTGAGAGAATGAAGCATTCTACAAAGAATGTTAAAAGCGAACT
[A,C]
TGGGCAGGAATTGAGGATATGAGTTTTGATGTATAAAGAAAAAGTGACAAGGTCAATAAT
TGGTGGTCTTAGTGTGATAGATATGCCAGTTTGGAAATTGTATTGAATAAATGCTAGTCA
GGGGCTAGGCTGTAGTTATGAAAAGGAGATGATTAAGGAAGTGAGAATAAGGAACTATT
GGTGTGGGACGGATGAAAAGATTATTGGAGGCAAGTCAAGGAACTGAGAGGCCAGGGTGT
TAGATGGAGCATTTCATGTAGACACTGAAGTCACCAAGAATAATAAATAACAAGTAAGAGG
- 102375 TTAGATGAGACATTGGACTGTGGACTTTTGAGTTATTGCTGAAATGAGTTAAGACTTTGG
GGAATCCCAGAACTGAGGGTTCCTCCCCATTGTAGACCATATAGGTAGCTTCCAGACGT
TGCCAAGGCATTTGTAACTGTATGGTGCTAGTGAGAGTGTCTTTAGCATGCTCATGT
ATTATAATTAGTGTATAATGAGCAGTGAGGATGACCAGAGATCACTTTTGTCCACATCTT
GGTTTTGGCCAGCTTCTTCACTGCATCTTATTTCTATCAGTGGGGTCTTTGTGACCTGTA
[C,T]
CTTGCAAAAAACAGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCA
CTCTGGTCTGAATGCCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCCAGTTGATTC
TGAAGCATATCCAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATG
AAAGAAACATTTTGAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAA
AGAAGTGATGCTAAAATTTAGAAGTAAAAATCTCAACTTGCTCTAGTAGGAATTTTAAT
- 102686 CAGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCACTCTGGTCTG
AATGCCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCAGTTGATTCTGAAGCATAT
CCAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATGAAAAGAACAT
TTTGTAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAAAGAAGTGATG
CTAAAATTTAGAAGTAAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACACT
[-,A]
AGTTTCTTTTCAATTTCTCTCTCCTGGTATGTGAATAAACAACCTTCCATACTGCAATTT
ACCCTGTAGTGAATTAGATGTTACCCTATTATATTTTGGAGAACTATATAGTTAGAATC
TAAGCTTAGATAACTTATTTTATGTTTACAAATCCACTTTCTTTATACATTTTCTTA
AATTTTCTCATATTCTTTCTCTGAATTTGTGGTAAAAATACCCCTTTCCCATTTCTATGT
CATGGTCTTTTACGAAGCTTTCTCATCTCTCCATCCCGAGGGAAGTATGTCTCATTTAT
- 102687 AGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCACTCTGGTCTGA
ATGCCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCAGTTGATTCTGAAGCATATC
CAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATGAAAAGAACATT
TTGTAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAAAGAAGTGATGC

FIGURE 3AAAA

- TAAAATTTAGAACTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACACTA
[A, C]
GTTTCTTTTCATTTTCTCTCTCCTGGTATGTGAATAAACCAACCTTCCATACTGCAATTTA
CCCTGTAGTGAATTAGATGTTACCCCTATTATATTTTGGAGAACTATATAGTTAGAATCT
AAGCTTAGATAAATTATTTTATGTTTACAAATCCACTTTCTCTTATACATTTTTCTTAA
ATTTTTCTCATATTCTTTCTCTGAATTTGTGGTAAAAATACCCCTTTCCCATTTCTATGTC
ATGGTCTTTACGAAGCTTTCTCATCCTCTCCATCCCGAGGGAAGTATGTCTCATTTATC
- 102939 CTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACACTAAGTTTCTTTTCA
TTTTCTCTCTCCTGGTATGTGAATAAACCAACCTTCCATACTGCAATTTACCCCTGTAGTGA
ATTAGATGTTACCCTATTATATTTTGGAGAACTATATAGTTAGAATCTAAGCTTAGATA
ACTTATTTTTATGTTTACAAATCCACTTTCTCTTATACATTTTTCTTAAATTTTTCTCAT
ATTCCTTTCTCTGAATTTGTGGTAAAAATACCCCTTTCCCATTTCTATGTCATGGTCTTTA
[C, T]
GAAGCTTTCTCATCCTCTCCATCCCGAGGGAAGTATGTCTCATTTATCTTTAGGTTTTCT
GTATCTTACTACAGTGAAGTACCAGAGTAGGTAATATCTGATGAATAAATGAATACAAG
ATTTAATTAAGAAGTAATCACATTAACCAATTTGTTCCCTCTCTGATCTCTGTAATATTA
AGTTTCAAAGTAGTTTCTGGGAAAAGTAGTTAACACAATGATGTATGGATTCAATAAATA
AGAAAAATGGTGCTCAGGGATTTAACAGAAAGCTCATAAAATGTCAAATCCACAGCAATT
- 106162 GTTTTATGCGGCTTTGTCTATGCTGGCACATAACTAGTATGTACCAATGTATCTCAGAAA
AGATATCAAGTTTTCTGTTTAAAAATTTTCAAGTTTGAAGAAAATCAGTTAAAGAAAAACAT
AAAAAGATAAAAGTATATGTGTTATCTAGATTTGTGATATAGGGATATGGCAATAATCA
AGATGGTGATAAGTGAATGCTGAATTTCAAGAACTACTGATTACCCCTCTAGAATAAGC
TTTTGCCCCGTGATGATTAAATGTGTACGATTTCTTCTAATATTTATTTTTGTGTATATT
[G, T]
GGATTTATTAGAATATCAGGGAAGATCTGCAGGGGCACAAAACTGTATGTTATAAATGTT
AACAGTGTCAATAAGATCTTTGTTATGTCTTTAGAAGGCTGCTAGATGAGGAGTCCCTA
GATCTTAAAGGCTCCTTATTCAATTTTTACAAAAAGGATTTGCAAGTGGAAGTGAAGTCTC
CAAGTACCATCTATTGCTCATTATTTATTTACCTATTTTTGAGCCTGATTTTCTGATCC
CACCTGTGCTCAGGGGGCTAAGAAACACTGGTAATGACCTCTAATTTCAAAGCTCACTGT
- 106378 CTGATTACACCCTCTAGAATAAGCTTTTGCCCGTGATGATTAAATGTGTACGATTTCTTC
CTAATATTTATTTTTGTGTATATTGGGATTTATTAGAATATCAGGGAAGATCTGCAGGGC
ACAAAACTGTATGTTATAAATGTTAACAGTGTCAATAAGATCTTTGTTATGTCTTTAGA
AGGCTGCTAGATGAGGAGAGTCTAGATCTTAAAGGCTCCTTATTCAATTTTTACAAAA
GGATTTGCAAGTGGAAGTGAAGTCCAAGTACCATCTATTGCTCATTATTTATTTACCTA
[T, G]
TTTTGAGCCTGATTTTCTGATCCACCTGTGCTCAGGGGGCTAAGAAACACTGGTAATG
ACCTCTAATTTCAAAGCTCACTGTCACTATTATTTATGGACTGTCCAAAAAGATTTTTT
CCACTTTCTTCCAATGCCTTATTTCTTCTTACCTTTACTGCTTCTGACATTTGAAAA
GGGTCTCTGATTCTCAGAAATGTGAGCAATGGTGAGATTTAGCATGAAGGTGACTTTCTT
TAAATACCAGCTATCCAGAGCTAGGTACAGTGGCAGGCACCTGTAGTATCAGCTACTTG
- 107310 AGCTTTATCCTCCCTTCAGAGAACAGTGTTTTTATCCCAGGTCTCATCCATGGCTTCACC
CTACTTCTATCATTAAAGGCATCCTATTCTCCTTCAGTCAACTTCTTCTCCTCCTCATTT
TCTTGGTGACTTGGTCATTGCAGATGAGGAAAAACATGAAGAAATCAATTAATCTTCAAG
TTTAACCACCTTTAGAGACTACCCTTGTGAAAGATTAATTGTGTAAACAGTGTGGTTAAGA
ATGTGACTTCTGGAGCCAGATTGCCTTCATTCAAAACACACTTCACTCATTTCTAGCCC
[C, T]
GAGAGCTTTGACAAGTTGCCTAAACTTTGTCTTAGTTTTTCCAGGGATCAAAAGAATACT
TACTTAGAAAAAAATCTTACTTACAAAAGAAATCTTACAGGGATCAAAAGAATACTTAA
TTAGGGTCATTGTAAAGACTGACCTGATACGTGTGAAGTACTTGATGCAATGACTGTCAC
AAAGAAATCACTCAATAAAAGTCTAATATTAGTACAATTCTTCTGAGGCAGTCATGGCTT
TCTTTCTTGAAAGGAAGCTGGGACTGCTTCATCTTGTTTTATGTTTCTTTGTCTATGC
- 108663 ACTTTCCATGTGGAGCTCATATTTGAAGACCTCATTTGCCTTCTCCATCTCCATTTATAA
TATTTTCATCCCTGATGGGCTGTGCTTGGGCTCATGTGGAAATTGTAGCCACTGTGAAG
GGTAACCACTATCTCTGGTGCCCCCTATGCGCATCCCTACAAGTGAAGTGTGTATCA
CACCATGCTGCTTACATTTTTATGCAACACGATTGAGTAACAGGCAGAACTTTTATTCT
TACTGACTCATATTCTTTATATTCTGAAAAGATTGACATTTAAAGGAGCCAATTGTA
[C, A]

FIGURE 3BBBB

- AATGGGAAATCCACTGTGTGAATATTTCTTGTACATCAGAATTTGCCTTAAAAATGTTTT
TAACTTAGAGCACATCTGTACTGTTCTCCCAAAATGTCCATTTACTAGTTTACAGAGCAAG
ATGACATTAGGTCTTGGGTGACTCCTGACCCACTATCCTAATGTATATTTTCAATTCCTA
CCAATGTAAGTACCCCATCCAATTCATCAATACCATAGTGTCTAAAATTCTTGATTTT
TCTTATTAGGAAATGCTACAACCAGAGGAACAGTAATGTCTGCCTGACATATCAGAGAA
- 108876 TCAGTAACAGGCAGAAACTTTTTATTCTTACTGACTCATATTTCTTATATTCATCTGAAAA
GATTGACATTTAAAGGAGCCAATTGTACAATGGGAAATCCACTGTGTGAATATTTCTTGT
ACATCAGAATTTGCCTTAAAAATGTTTTTAACTTAGAGCACATCTGTACTGTTCTCCCA
AATGTCCATTTACTAGTTTACAGAGCAAGATGACATTAGGTCTTGGGTGACTCCTGACCA
CTATCCTAATGTATATTTTCAATTCCTACCAATGTAAGTACCCCATCCAATTCATCAAT
[A, T]
CCATAGTGTCTAAAATTCTTGATTTTTCTTATTAGGAAATGCTACAACCAGAGGAACA
GTAATGTCTGCCTGACATATCAGAGAAAATGACAATTATGTCATCATCTGTCACTTAGGT
TTCTTAATACCATCCTGTTACAAGGAATAGAGGCAAAAACTCAGCGTAGGAGGTGAGAAA
AAACTGAGGCTGCCATCTTAACAGCCTTTTCAATGCAGAGTCTCAAAATGTACCAAAAGA
TGAAGTGGACAGTGTCTTTTAAACAACATACAGTGTAGAATACAGTAACCTTATCCCCA
- 110733 CAACTGACGTGTAATGAGTACTCACCAGAGTTGAGATGTTCTGCTAAGCCAGGCCCTCTT
TTAAAAATGTAATCTCAAACCTTTATTAGGTCTCATAATCACCTGGAAGGCTTATTTAAAT
ATTGGCGCCCAACCCACAGAGTTTCTGATTTGTTATAATAGAGTTGAGGGGGGACGGGGC
GTAAGAATCTGCATATCTAACAAGTTCCAGGTGATGCTGATGCTGCTGATCTGGGCACT
ACATTGTAGGAATCAATTGGCTCTAAAACCTTCTCTACCTTCCACTTCTACATGAGCATA
[C, G]
ATAATCTTGTAGCTGAGTCAGCTTGGAAATCTATGCAGACTAAAGTAGACAGTTGCATGT
CTGGCTGCTCATCTGAATCACCTGTGGAATTTGTTGTTTTAATACAGATACCTGGCTCT
CCTACAAGTCCCACTGAATTGGAGTTTCAAGGAGACCGAAGCCAGGCACATGTATTTTGC
AAAATACACTGAAGTTTCTGATAATGACGGATATCAACAATTAACGCTTACTTCTTGC
CAAAATGCTGTGCTAAGTCTCCTGTAATCATTCTTTCAATTAATATTTCTAATAACCTCTT
- 111546 AGAAAAAGAAAAAACAGAGACAACCTACGCTATGATAAAGTTATTGAAATCAGGCATTGG
TGCCACTCCAGCAAGAATGAGTGGCTACCTTTTTTTTAGATGAGTGCTACCTTTACTTTA
CTGAAATATCATGACATAAAACAAAGCCAAAACACTTTCTGCACAAAATAAAATCCTGGTG
ATAAAGGCAGTGGGATTTATGCTTAGCAGCAGGCTGGATACTATCAGGGAGCAGACAAAG
AAGTTTGATACAGGGCTTGTGGACTGTGGGCCCTGGAAGAATCTGATGACATGCCCTCCA
[A, G]
TTACAGCTGTATCTCATCAAAACACAGACACATGTAATGGAAATGCCAACACTTCAAG
ATTCTCTGAAAGCAGTTGACTGTCATGCCAACAGCTAACATAATAGGCTTGTTTGCCTGA
GCTTTTGGCACGGCCCTTTTGTTCCTTTAGCTGTAATGCAGGGACCTTAGAGCACCTC
ATAGAGTGTGTTCCCTGCCAGTATAAGTATTAGACCCACACTATATTGCTTTGAGTGTT
AAAGCTGAAAGAGACCCCTAGAGATCATTTAGTCTACTCCTTCTTTTTTTATGTGAAGGAA
- 116728 ATTCTCCAGGTTTCTGCGGTTTCCATATTAAGGGCTATTTTCTTGGAACCAAATCAGAAA
ATGTGCATCTGGGTTTCCAGGGTTGGTTTCCATGGTGAGAGAAAGTACGGGGAGGCCACCT
TTCTTTCTCTCCCAAGTGGTTTAAAGTACAATATCTGTATAATGTAATTTTTTCAAAGT
TGGCATTTCTAGTCTTCTCACAAGATAGAACTGGGAAATTGGAACCTAGGAAAAATTTCTG
TGCACCTTCCACTTTTACCCTTGTAAATTAACAATGACTAATATTTCTTGAAATCTTTCCC
[T, C]
GGACCAGACAAGGTGTTAAATGTTTTACATTCATTTATTTGTTTATTTTTCTCAGCAGCC
CCATGGGGTGGAATACTTATCACTACTTTATAATGAGAAAAATCAGAAGCTAAATAAT
TTGGCCGAGATCACATGGCTAATAATTGAAAAGTCTAGATTTAAATCAAGCTTGTCTGA
TTTCAGAAATCAAGCTTTTTCTTAAAAGGAAGTTAATGAGAAATAAAAATATATTTTG
TAAATATTTTTATCTGTGGTTTTTAAATGGTTCTAAGTCAACTTAGTTAGGCTAACATAT
- 118403 GTAACCTAAAATTTTCAATTTATAATGTAACAATAATGATAGCATCATATAGTGAACATTT
ATTGTTCCAAGCACTTTGCTAAGTTTTTAAACATTTATTATTAACTCTCAACCCCATAAA
ATAGGTTTTACTATTGTTTGAATTTTACAAAGTTAAAAAAAATCAGGCCAGAGAGAGAG
AAAGTGATGTGTTTCAATACACAGCCAGTGATTGGCAGAGCATGAAATTTAAACCAAG
TCTAGAAACATGCCGTGCCTGAGACATGGACGATGATGTGACAATGATGAAGGTAGAATG
[G, T]
CTGACATTGCTAAGCTCTTCTAAATGTTAAGCACTGTTGTAAGTGCATGCATTGTCATT
TAAACTAAAAACAGTTCTGTGAGGCCACTACTATCGTTACAGTTTTATTATTGCATAATA

FIGURE 3CCCC

TATTAACATATAATTAATGTAGTATATTGTATATATAGTACTATTGTTATAGTATATATT
GTTCTCACTTCAGAAATTAGCAGACTGAAAGGTTAAGAACTTGTTGACTGTGAAGCTGG
AGACAGTCATAGGGTCTGATGCCAGAGCCCTAACTCTTAACATGCTGCAGTACTGTCCC

118491 AACATTTATTATTAACTCTCAACCCCATAAAATAGGTTTTACTATTGTTTAGATTTTAC
AAGTTAAAAAAAATCAGGCCAGAGAGAGAGAAAGTGATGTGTTATAATCACACAGCC
AGTGATTGGCAGAGCATGAAATTAACCCCAAGTCTAGAAACATGCCGTGCCTGAGACATG
GACGATGATGTGACAATGATGAAGGTAGAATGTCTGACATTGCTAAGCTCTTCCTAAATG
TTAAGCACTGTTGTAAGTGCATGCATTGTCAATTTAACTAAAAACAGTTCTGTGAGGCCA
[C, G]
TACTATCGTTACAGTTTTATTATTGCATAATATATTAACATATAATTAATGTAGTATATT
GTATATATAGTACTATTGTTATAGTATATATTGTTCTCACTTCAGAAATTAGCAGACTGA
AAGGTTAAGAACTTGTTGACTGTGAAGCTGGAGACAGTCATAGGGGTCTGATGCCAGAG
CCCTAACTCTTAACATGCTGCAGTACTGTCCCTTTGTTCAATGCAATAAACATGCCTCTG
CTAAATAGAAACCCACTTCTCTTAATCAATTTTTATTGTTGAATGTTAGGTTGTTTCT

118888 TCACTTCAGAAATTAGCAGACTGAAAGGTTAAGAACTTGTTGACTGTGAAGCTGGAGAC
AGTCATAGGGGTCTGATGCCAGAGCCCTAACTCTTAACATGCTGCAGTACTGTCCCTTTG
TTCATGTCAATAACATGCCTCTGCTAAAATAGAAACCCACTTCTCTTAATCAATTTTTT
ATTGTTGAATGTTAGGTTGTTTCTCAATTTGAAATACAGATAGAGCATCCCAAATCCAAA
ATGCTCCAAAATCCAAAACATTTTGAACACCAACATGACACTCAAAGGAAATGCTCATTG
[A, G]
AGTATTTTGGATTGATTTGGGGATTTGGGATGGCCAACCAGTATAGTGCAAAATATTTCAA
AATCTGAAAAAAAATGAAATGCAGAACACTTCTGGTCCCAAGTATTTCAAATAGGGG
ATACTCAACCTGTACATTTAAATTTGTAGTAAAAATCCTGTTAGCAGAAATTATGCTCTGG
AACTTAGTTATTTCTTTGTGATAAATTTTCAATCAATAATAATAGTGTATTCTCTTACTG
AAAACTCACTCAAAGAAATTTTGTGTTCTCACCACAGAAAACAGTAATGTGGGTAATGTG

125444 GGAGAATCACTTGAGCCCAGGAGGTAGAGGCTGTAGTGAGCCAAGATCATGCCACTGCAC
TCCAGCCTGAGCTACAGAGTGAGACCCCATCATTAAACAAAACAAAACAAAACAAAACA
AACAAAAACAAGCAAGTTATGTGCTTCCAAAATACAATGATACCATAGCTGTGGGATAG
AGAATCCCATTTCAACATTTCAAAAGAGAAATGGGAAAGAAGGAAGGGGCATCAGCTCCT
AAACAAGTCCAGAACATATCAAAGCAAATCTATTATATCTTAAACTCGAGAATAATCT
[-, A, T]
CTTTGAGTTGTTGGTTTGCCCTCTAGATCTACACAGGCATGGGAGCAATCACTCTCATGG
CTGGGGATGGGGAGAGGGGACTTGCTTAAGTGGCTCTCTACAAAGGCACTACCCACATGG
CTCTCTGTGAAGGCTCTGTCTACACAGCTCTGTTGAGTGGTGGTCTGCCCTTCGAAACA
GAGGTGGAGGCAACCCCTGCTCCCCAAGCCAGTGCCTCTGGACCTGTAGTGGGAATGGCA
GCCCTGATGATCTGTGAATCGCCCTCATGATCCTTCTTCTTTACTTGAAGGATAGCAC

125810 GATGGGGAGAGGGGACTTGCTTAAGTGGCTCTCTACAAAGGCACTACCCACATGGCTCTC
TGTGAAGGCTCTGTCTACACAGCTCTGTTGAGTGGTGGTCTGCCCTTCGAAACAGAGGT
GGAGGCAACCCCTGCTCCCCAAGCCAGTGCCTCTGGACCTGTAGTGGGAATGGCAGCCCT
GATGATCTGTGAATCGCCCTCATGATCCTTCTCTTTTACTTGAAGGATAGCATGTT
CACAGCTGGATAGCATTACGGTCCAGCCTGTAAATCCAAGAAGTCTGACAGCCTTTCT
[T, C]
CATAAATTCAAAGTGGCAGCATCTGCTAGTATAATCCCATCTTTATTTCTAGCTTCTGTT
GTGATAACTACTTGATTGTTGAGCTACACTCTAGTGTGCTCTTCAGAACAGGCTTGCTCA
TTTTCTGCAATATGGATAGAAATCTTCAATTTCTGGTTGCTTTTTGCTTAATTTATTTTT
CTTCAATTCAAACATTCCTTTAACATTTTACTATAAGCAGACAGAAGGAACCAAGTTAC
TCCTTCAAAGTTTTGCTTAGAAATCTCCTCGGCTGGCCTGGTGCAGTGGCTCATGCCTAT

126092 AAGTCTGACAGCCTTTCTTCATAAATTCAAAGTGGCAGCATCTGCTAGTATAATCCCATC
TTTATTTCTAGCTTCTGTTGTGATAACTACTTGATTGTTGAGCTACACTCTAGTGTGCTC
TTCAGAACAGGCTTGCTCATTTTCTGCAATATGGATAGAAATCTTCAATTTCTGGTTGCT
TTTTGCTTAATTTATTTTTCTTCAATTCAAACATTCCTTTAACATTTTACTATAAGCAG
ACAGAAGGAACCAAGTACTCCTTCAAAGTTTTGCTTAGAAATCTCCTCGGCTGGCCTGG
[T, C]
GCAGTGGCTCATGCCTATAATCCCAGCACTTTAGAAGGCTGAGGCGGGCAGATCACCTGA
GGTCAGTAATTCGAGTCCAACCTGATCAACATGGAGAAACCCCATCTGTACTAAAAATAC
AAAATTAGCCGGGCATGGTGGTGGATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCA
GGAGAATCACTTGAACCTGGGAGGTAGATGTTGCAGTGAGCTGAGAACACAACATTGTAC

FIGURE 3DDDD

TCCAGCCTGGGCAATGAGAGCGAACTCCATCTCAAAAAAAAAAAAAAAAAAAGAAATC

127506 CATTCTTTCTGCTGCTGTCAATAGCCCTCTTCTTTGGTCCCACAACACACCATCATGATT
TCTGCATTAAAAATGCCATCTCCCAAGTAATTAACCTATTCACAGTAAGAACAGTTGTTA
GAAGTTGGGGTTATTTTCATCATGGTCCAATGGCTTTATCTTGCTCAGGAAATCAAAGATG
AGTGTCTTCTAAAGCAAAAAAAAAAGGAGGATCTCACAATTGTATCTGTTTCATTCACTCTGC
AGGGTCCATTTTACACCCAAACATTATTAGTTTCATTGTTTGTACTCCTGCCTTTCCTGA
[G,A]
GAAGTCATTGTAGCACTATTTCTTAAGTATATTCAAATTTGGATAAGTTAGTCAAATTGA
TGTGAAAGGACCACCCTTGTAAGCCAAATGTGTAAGTCCTACATAGGGATATTACCTGTT
TTTATCTCCTGATGGGCTTTTTTTTTTCAAGTTTCTAAATAAATCCAGTGAACAAGTAG
ATACGCTACTCATGATTATATAGGAAAACAGAGAAGAGAAACATACACTTACTTAAAAAGT
AGAAACATATCTGCTCTTTCCCACTTCACCCTTAATTTTTTTCTCCCCAGCCAATTTACT

127878 CACCCTTGTAAGCCAAATGTGTAAGTCCTACATAGGGATATTACCTGTTTTTATCTCCTG
ATGGGCTTTTTTTTTTCAAGTTTCTAAATAAATCCAGTGAACAAGTAGATACGCTACTC
ATGATTATATAGGAAAACAGAGAAGAGAAACATACACTTACTTAAAAGTAGAAACATATC
TGCTCTTTCCCACTTCACCCTTAATTTTTTTCTCCCCAGCCAATTTACTCACCTTCTGTG
GCTGTGCTTCTGTGTTAGACCTTGCTAGCTGCTTCTGGGGTTCAGAGCAATTTGTGCTCT
[G,T]
CCCTCATCTTTTTATGACACACCTAGCAAAAACAGAAGCAGAGGAGCGAGTTGAAACAGACA
AACGACTATCTGTTATTCTTCAAACATGCCTAGGATTGTATTTAACTATCACCTATCTAA
AAGAGGTATTCTCGCTGCCTGGAAAGAATTTTGCTAAGAAAATTGTTTCTTCTTCCC
ATATTATTTTACCTCTATGCTAGTTCCCTGTGATTTGATATGTCAACTTTGACAAATTC
TTTTCTAAAGCACAGATATGACCTTTTTTGTAAAGAAAAAGAACTACTGTTGCTCCCC

139738 GCTGTGGTTTGTTTTTAATTCATCTCTAAGTATATTCTGATATCTCATGTGATTTCTCTT
TTTGACTCTTTTTTAAAGAGTTTGTTGTTTAAATTTCCACATTTTGTGAATTTTCCAGTT
TTCTTCTGTTATTGATTCTACCTTCATTCCAATTATTTAGTCTTTTTAAATTTTTTG
ATACCTGTTTTGTGGTTTCTTCCATGGTTTCTTTAACTCTGAGCATATTCAAGACGGT
TGTTTTAAAATCTCACTCTAGAAAGCTCAATGTTTGAGCTTCCTCAGGACAATTTCTATC
[T,C]
GTTGATTTTAAAGCTTTGAATGGCAATATTTTCTGTTTCTTTGTGTGCCCTGTGATTTT
TTTTCTGTTGCTATTGAAAACCTCGACATTTAAATATGATAATGTGGTAACTCTGGAAATC
AGGTTCTCTCTTCTTTCATGGTTTGCTATTTTTTGATTGTTGAAGGCTGTAGTTATCCAT
TGTTTAGCGACTTCTCAAACAATGTTTGACAGAGATTGTCTGCTTTGTTGTGTCATCACT
GAAGTTTCTGTTACTTTAGCCTGTGCTCAGCTAATGTTTTGACTGAGATTTAACACCAAG

140261 CTTTGTTGTGTCATCACTGAAGTTTCTGTTACTTTAGCCTGTGCTCAGCTAATGTTTTGA
CTGAGATTTAACACCAAGAGCATTTTTAAGTTGTTTTTCTTTCTTAATTTAGTGTTTAC
TTGGTTCCAGTAAACCTTTGAGTGCTTCCGGAGTTTGAACAAAGTTGGTTTTGACAGTA
TCTGCTTGTTTTTTGATGTTTCTGTTTCAGAGATGGGGCTTGAACTGCTTACATCAGCA
TTTTCTCTAGATTCTTCTAATCTTGACCCCAGGTTCAAAAATAAAAGGTACTTTGCTT
[C,T]
AAAACAAAGAATAGTCTTTCTTCCAAGAAGAATCAGAAAGATTATGAACTATTTTTCTGA
TTCTTCACTCTATTTTCTCTCTTTTACATTAAGGCTTTTAAAACATGAGTCAATCTTACC
TTATTATATTATTAACATGCTCGTTCATTCAATTCATTATTTATTCAGATGACTGTAAAA
TTCTGCTTTGTTAGGAAATATTTCTGACTAGGTGGTTAATGCTATGGTTAGATACACAA
AGTGCTGTGGGAATTGCTCACTGGACCTGAGTGAAGGGTTAGGATAGGCTTTCCAGAGGA

141590 AATGGGAATAGCATTGAATCTATAAATTAATTTAGGCAGTATGGCCATTTTTATGATATT
GATTCTATCTGGGAACCTGGAATGTTTTTCCATTTGTTTGTGTCCTCTCTGATTTCCCTG
AGCAGTGGTTTGATTTTCTCCTTGAAGAGGTCTTCATTTCCCTGTTAGCTATATTCTT
AGGTGTTTTATTGTTTTGTAGCAGTTGTGAATGGGAGTTCAATTCATGATTTGTCTCTG
CTTGCTGTTGTTGGTGTATAGGAATGCTAGCAATCTTTGCACATTCATTTTATATCCTG
[T,G]
GTTTCAGTATTTTAAAACTTACTTCAGGTGATTCTATGTGTGCAACCATGATTGAGATA
CACTGTTATAGAATCTAGGATGTGATAAACTAGAAGAACATAACTAAAGTTTTGCATTTT
TCGGGTGTCTCAGTTTCTCATTTATAGATGGAGTTGGTATGTGTACCAAGTTCATAGGC
TTGTTCTGAGTAAATAGTGCATGTAAAGTGCTCCACAGAATGTTAGCTGTTGTGATGCT
TTACTTTCCATTGCACTTCTGACTCCTAGCCTTTCTTTTCTTGGCTCTTTTTATGCTC

FIGURE 3EEEE

142613 ACAAGTTGAACATGAACCCCTTTAAGGGTAATGGGGTCTGAAGTGTCACTAAAAGGTCA
TCTGCAAGTATGATTTTCATATCTTTGTTTAAATAAAATAGTTACATAGTAGAGGGAAAA
AAAATCCATGTGGATTTTGCATTTCACTCAATTATAACCTTGATTTTAAATGCTAAAAAT
TATTTTTCCTAAATCTTGGGGTAAAAGTGTGCTCCAAAGAGCTTTTATCAGATTATGT
TTATCCTGTAGCTGCCTGTCCCCTGTGACCGATACTGGAAACCTCAGGATTACAAATGC
[C, T]
TCCGTTTGCAAGTAAGAGTGAAATACAGCAGAACTGTGTCTTCTCCTTTGTCTTGTCCC
CATCTCTCTTCTGTGCTTTGTATTGTTTCTCTCCTGTACCTAAACAGGCACTCTGAAA
GAAAACCTCTCCAGTACTGGAGAACTTAGCATATTCTAATTCCTAGGTTAAAAAAAATAA
TAAATGACTGAATGATTTTTTTTAAAGAATATTTTCCATCAGAAGAAAATTTGGAAGTATT
TTGTTGCAGAATTTTAAAAATTTGATCTGGGTCTAATTCTGTCTGGGACTGGTAATCA

142774 GATTTTTAATGCTAAAAATTATTTTCTAAAATCTTGGGGTAAAAGTGTGCTCCAAAG
AGCTTTTATCAGATTATGTTTATCCTGTAGCTGCCTGTCCCCTGTGACCGATACTGGAAA
CCCTCAGGATTACAAATGCCTCCGTTTGCAAGTAAGAGTGAAATACAGCAGAACTGTGTC
TTCTCCTTTGTCTTGTCCCCATCTCTTCTGTGCTTTGTATTGTTTCTCTCCTGTCA
CCTAAACAGGCACTCTGAAAGAAAACCTCTCCAGTACTGGAGAACTTAGCATATTCTAATT
[C, A]
CTAGGTTAAAAAAAATAATAAATGACTGAATGATTTTTTTTAAAGAATATTTTCCATCA
GAAGAAATTTGGAAGTATTTTGTGTCAGAATTTTAAAAATTTGATCTGGGTCTAATTCT
GTCTGGGACTGGTAATCATTTTTTTGAGGCTAAATTTCTCATTTTGATGAAAAAGT
CATCAATAGATGTTGAAAGCTGGACAGTGCAGTGTCAAAGCAAATGCTTTGCATGTCTGC
AAGAAAGTCACAAATAAAGAAGGCTCTGCTGACTAAAAGAGAAAGATACTTAATCAACTC

143288 GTCAAAGCAAATGCTTTGCATGTCTGCAAGAAAGTCACAAATAAAGAAGGCTCTGCTGAC
TAAAAGAGAAAGATACTTAATCAACTCCAGTACCATTGTTGAGGGGAACATTCTATCAGG
ATTCAGTATAGAGAGATATTTTAGGCTATTCACAAAATCCAGGTAGAACCTCCAAGCTA
CATTTACAATAATACTAGCTTTTAGATTAATTGTTGTTTTTAAATATGTATTAGCCTCT
TATACAAATATAAGGAGTTACAAATTATTATTACAATAATCTTGGCTTTCGTGATTGTCC
[G, A]
ATGTATTTACACGTACCGAGAGCTTTATTTCTCCGTATAGTTTCAAGTTACTGTCTCGTG
TCCTTTTCAATTCACCTTGCAAGGACTCCTTTGAGCATTCTTACAGGGAAAGTTCTAGTGGT
AATAAACTCCCTCCACTTTTATCTGGAAACATCTTAGTTTTCTCTCACTTTTCAAGAAC
AGTTCTGCCAGATAGAGGACCCTTGGTTGATAGGTTTTTTCTTTTAGCACTTTGAATAT
ATCAGCCCCACTGCCTTCTGGCCTCCAAAGTTTCTGATAAGAAATCTGCCCGTCATCTTAT

145610 TTTCCACCCTGACTCTCACAGGCTGTGTGCAAACTGCTCCGGAACATGTGTGTGCTCAGC
TCCCTCCCATGGGGCTGGAGGATGAGGGATGGGTAGCTGCTGCTGTGCTAAGAGCTTAAG
TTGGTCATAATTAACCTGCGCTTTGCCACCCAAGCCTTCCCTGAAAGTTGCAAGCTTTCAA
TAGACTCCAGAGTTCTAAAATAGTGACATTAGACAGATTCTGCCAGTGCAATCGCTGTCT
AGGAGGGGAGACAGATTCCTGGTGCTTCTGTTTTGCCAGCTTCCCGGAATCTTCTTCAC
[A, C]
TAGCATCCATTTTGAAGATACTACTTACTTCTCAATTTGGGGCTATTCTTGAATAGACT
GTCACCAGGTTATTGGCTGTTTGAAGATTCTCATTTGTCTGCTAACTATACCTCTATTTT
TTTTCTACGTTACCTGGAAGACATGTCTTCTTCAAGAGCACCTTGACTCTGTCCAGAAG
GAGTTCATAATTTTCAACAGAGAAAAGTAAGTAATTCTGGGAGAACAAACAGCCCCAGAA
ATGGTGGCATGTTTCAGCCAGACTTTACTTGACAGAGAAAATATATTTTAAACATTTTAAA

148360 GAAGTGAACAGGCTTGGTGGGGGATTGTTTTACCTCTTGGCTACTCAGAGTACCTAAAC
CTGTCTTACTTATGGAGAGCATGTGTACACCAAGATGGCAGTAAGCTGGCAACTGCGA
AGACCTGACTGATGCCATTTGGGAAGCCAGGCAAGTGAAAATGGACCGAAGAAACAGAG
ATGGCTGTCTTTATGCAGGGCTTTTCCATAAAGAGGTTACACTGGGGCAACCAAGTATG
TGTAAGAAAGCCAGAGCTAAACTTCAGCTTGGCATTACAGTTTTCTCTTCACTGAGCTAA
[T, C]
AGGCCAGAGTTTGGGGCAGAGCTGTGAAATAGTGCTTCTCTAATAGCAACCATATTATT
GTTACATAATTTAAAGCCAGCTCTTTTGTGTTTGTGTTGATTCTTTTCCCTACAGTTCC
CACATCATTTGTCTGTGCTATTCTGTTTTTCTCCAAACACTATAAACTTGAAGCAATTGC
CCTGACTCGATTTACAGAGAAGGGGATG

Chromosome map:

Chromosome 5

FIGURE 3FFFF